

The Jini Technology

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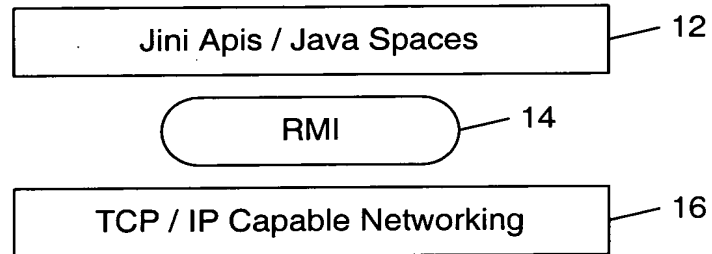


Fig. 1  
(Prior Art)

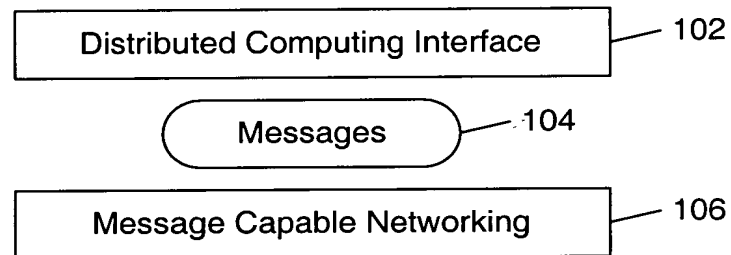
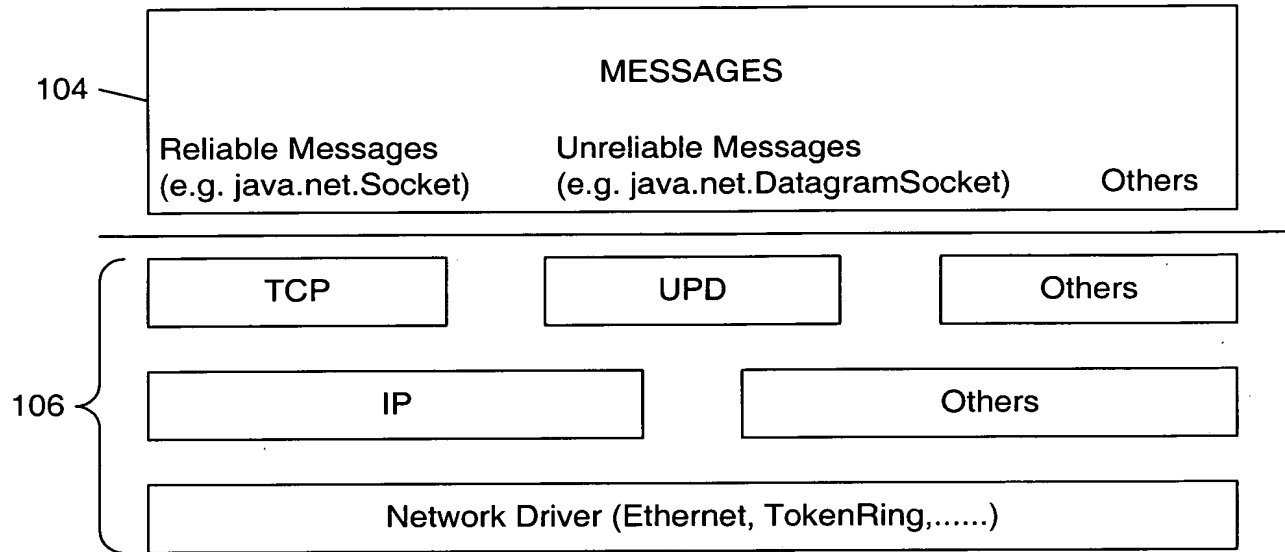


Fig. 2

09672145-092700



**Fig. 3**

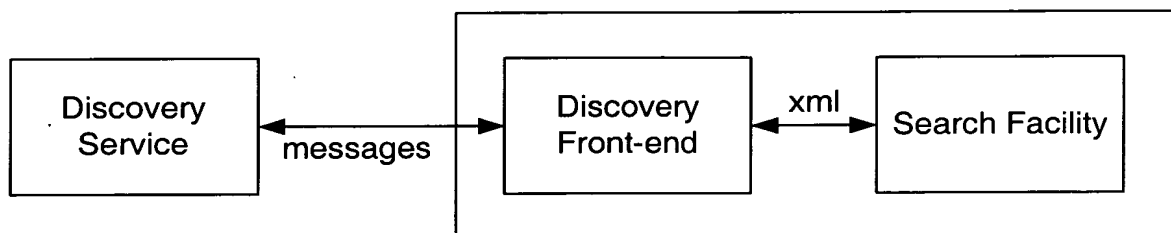


Fig. 4

09672145-092700

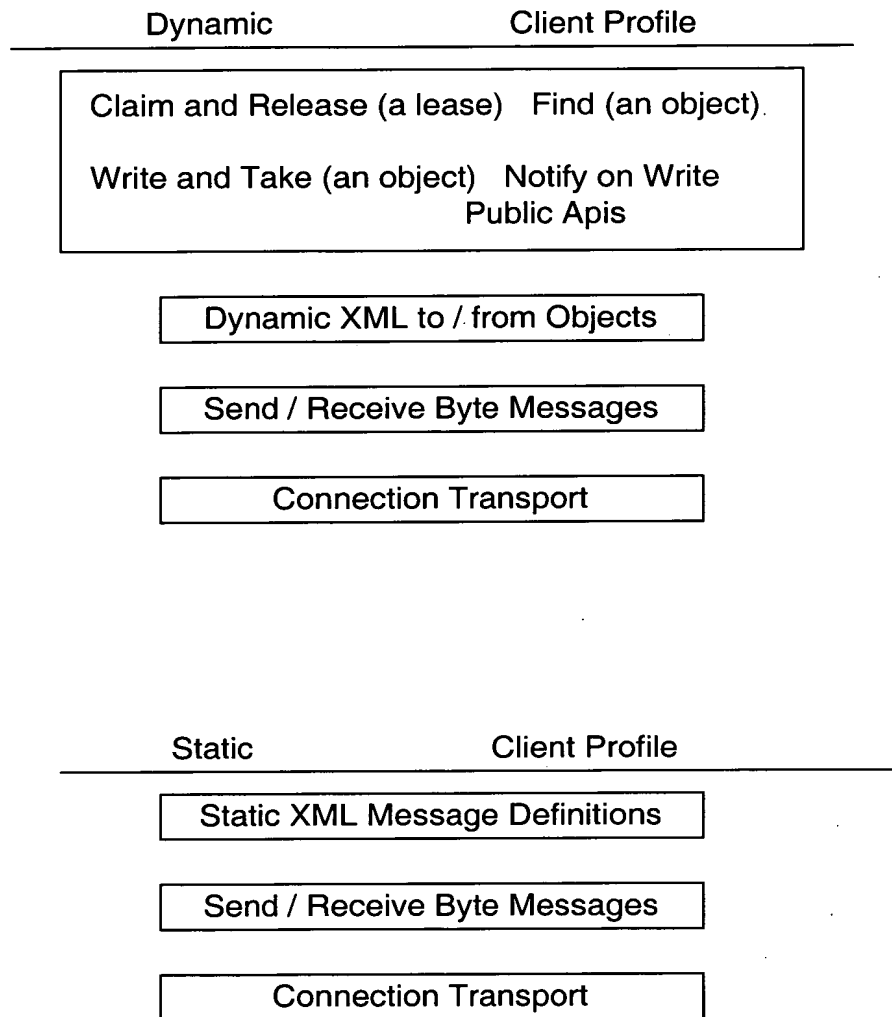


Fig. 5

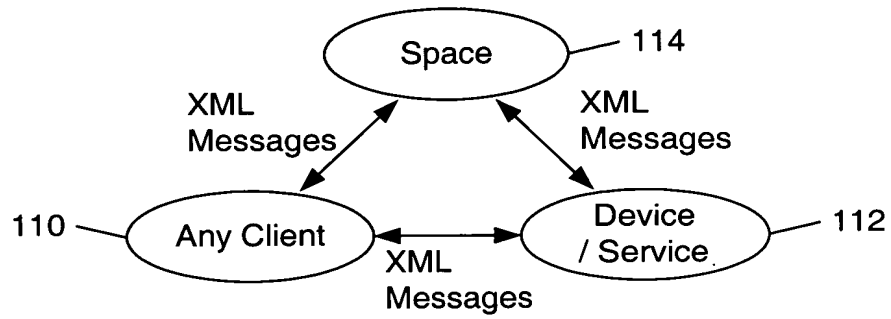


Fig. 6

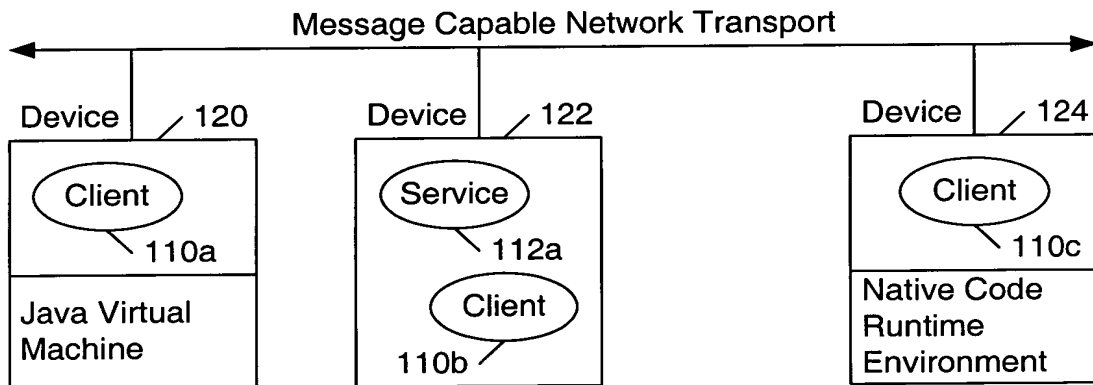


Fig. 7

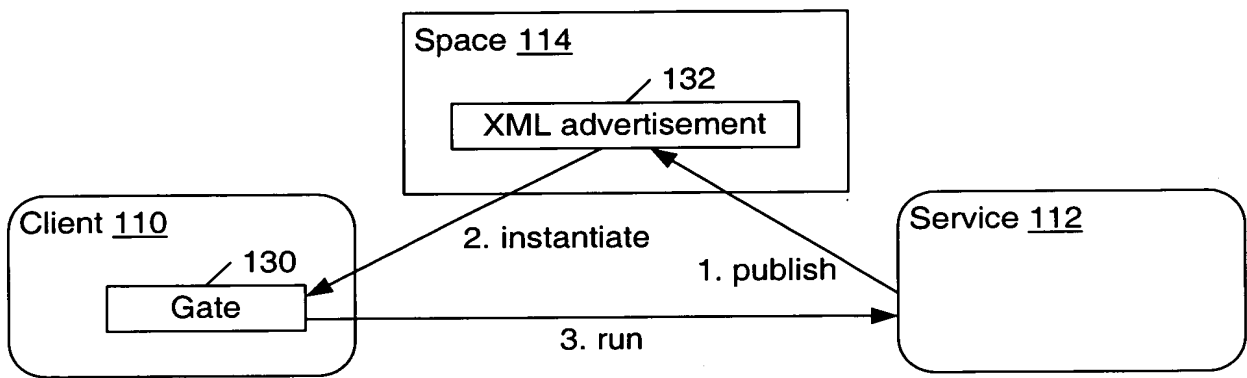


Fig. 8

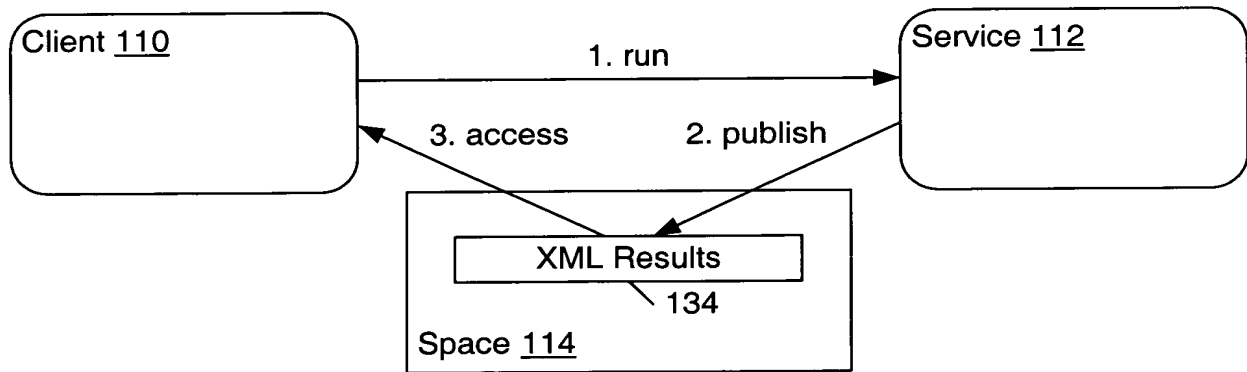


Fig. 9

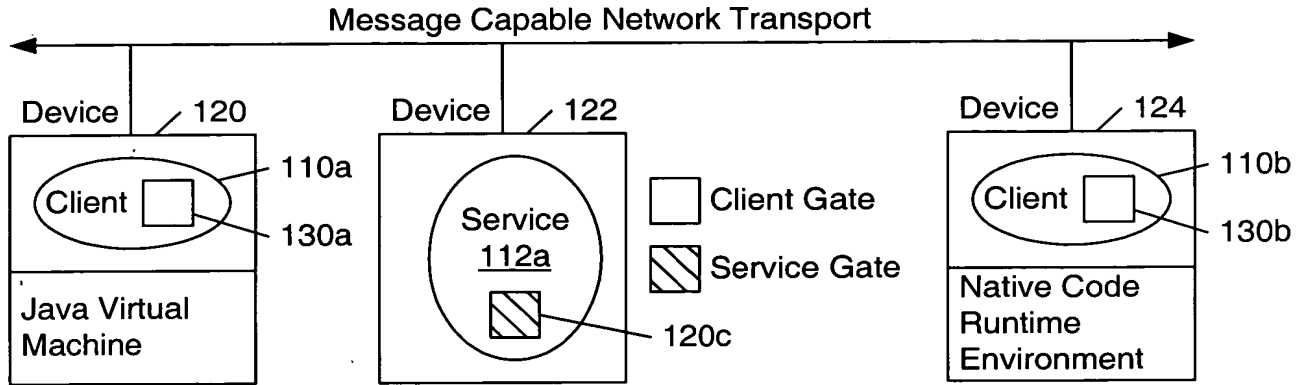


Fig. 10a

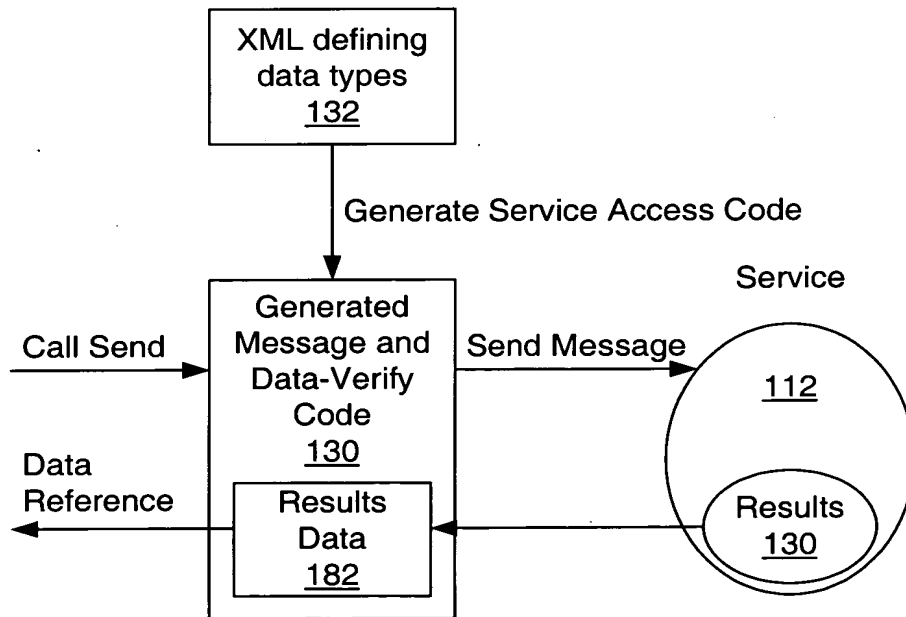


Fig. 10b

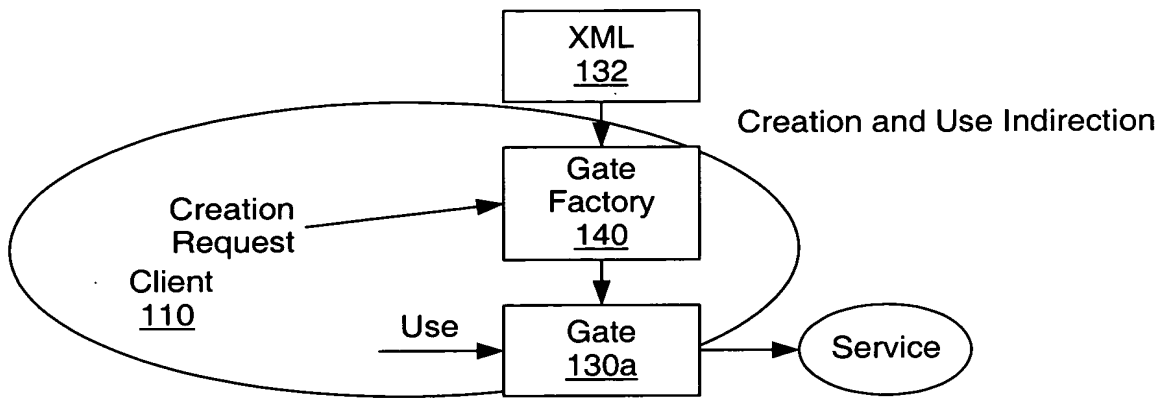


Fig. 11a

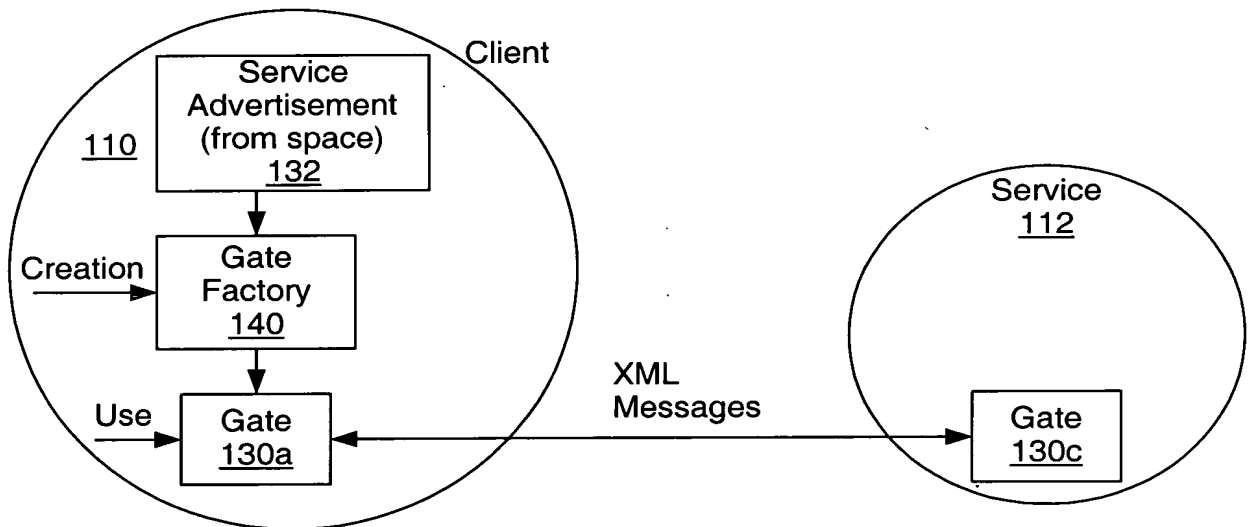


Fig. 11b

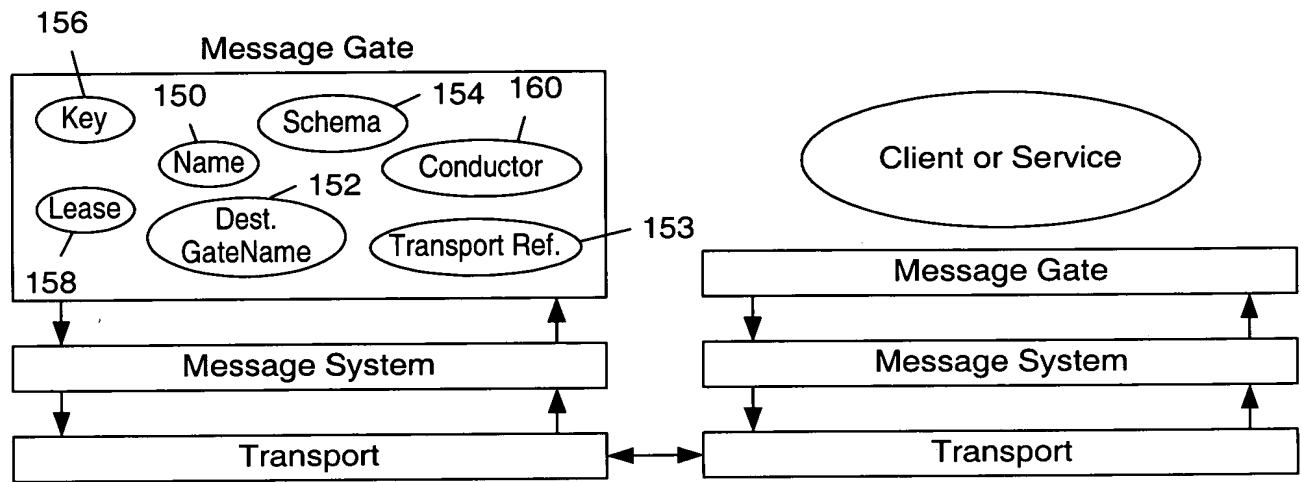


Fig. 12

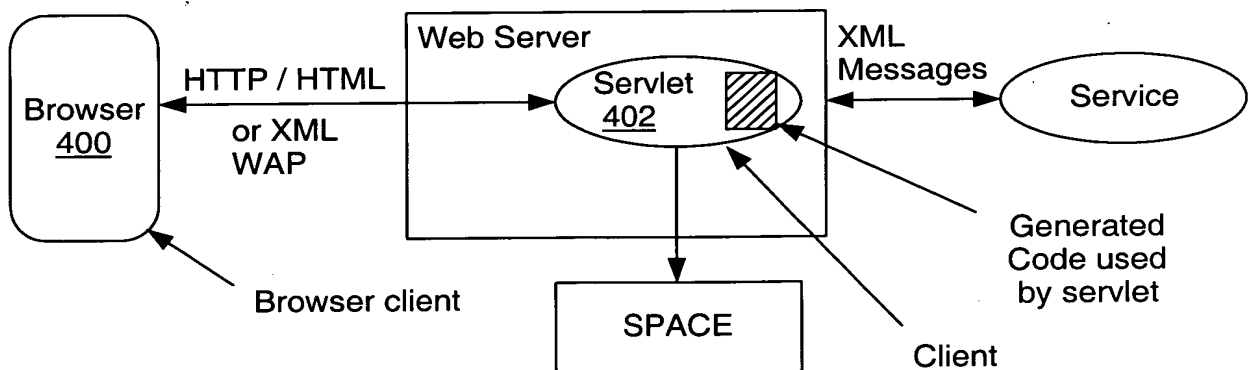


Fig. 13



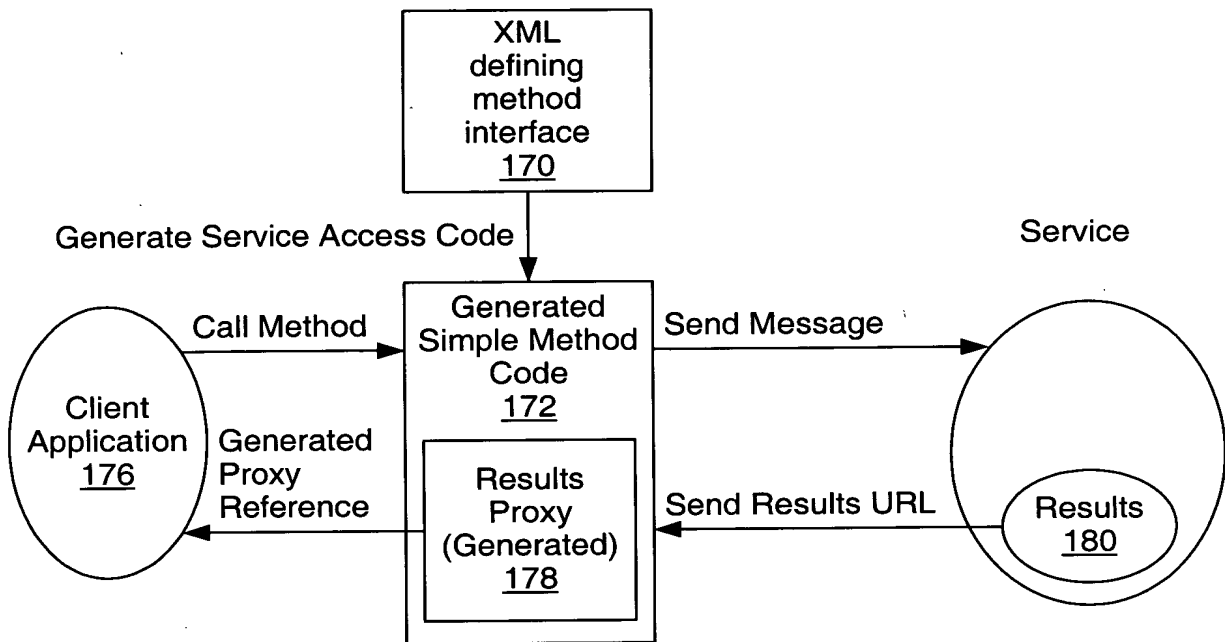


Fig. 14

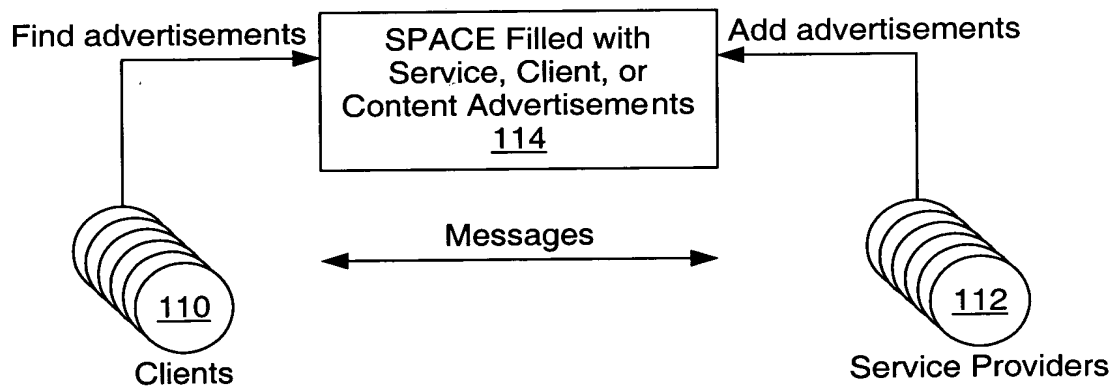
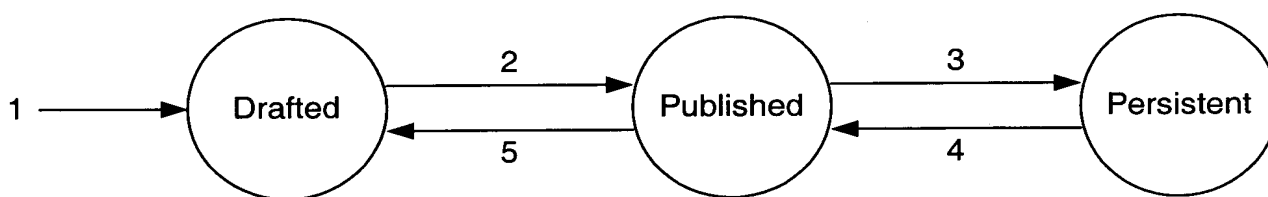
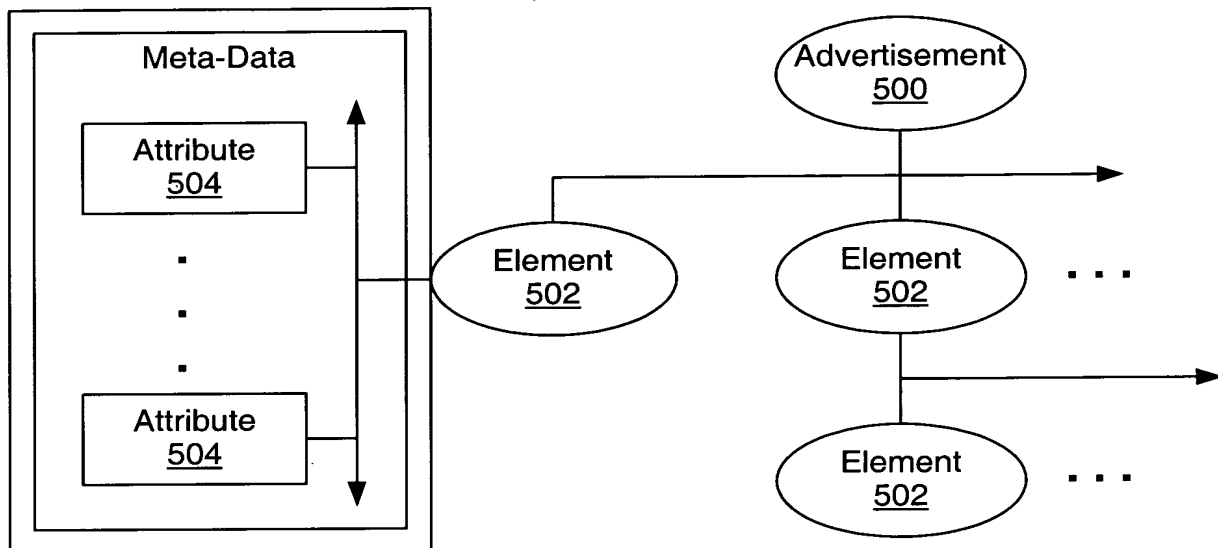


Fig. 15



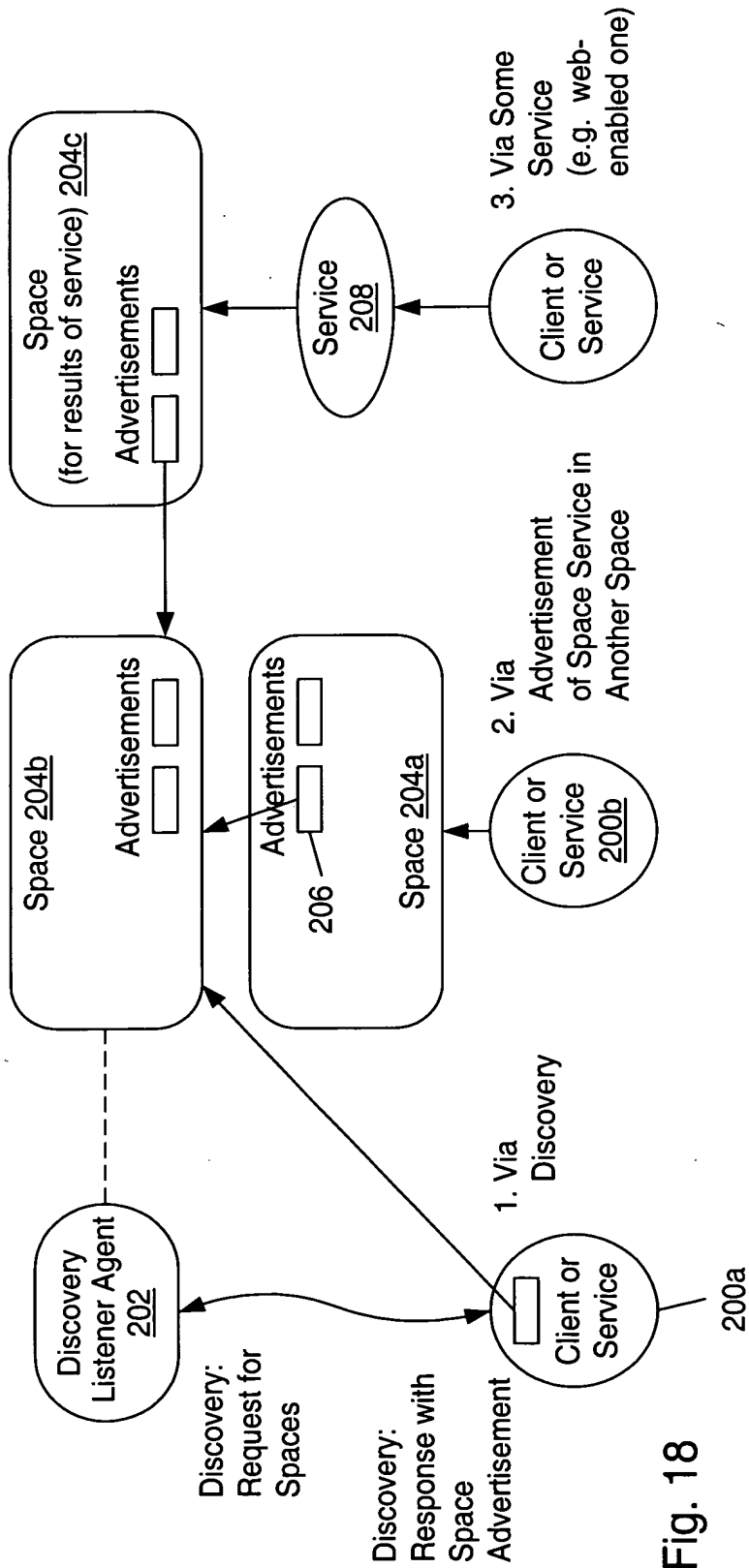


Fig. 18

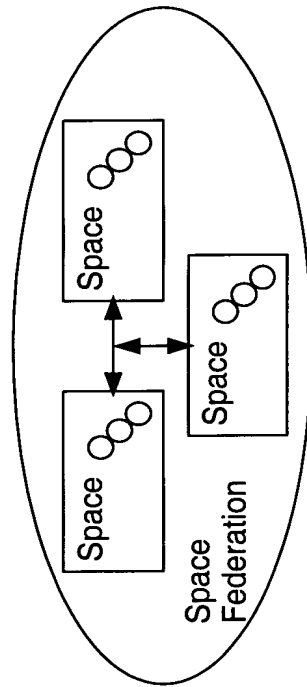


Fig. 19

Client runs authentication service for space  
300



Client constructs gate for accessing space  
302



Client sends message to space to  
run space service  
304



Space runs authentication service to  
identify client  
306



Space determines client capabilities and binds them to client identity (token)



Messaging proceeds between client and space - client may access space facilities

Fig. 20

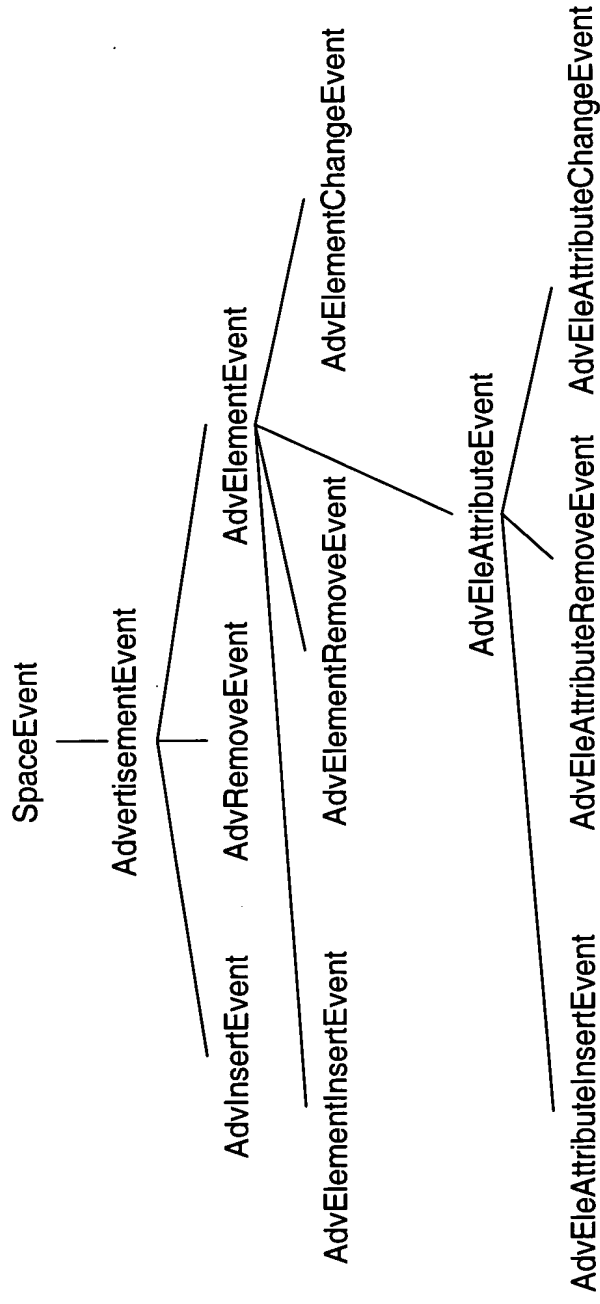


Fig. 21

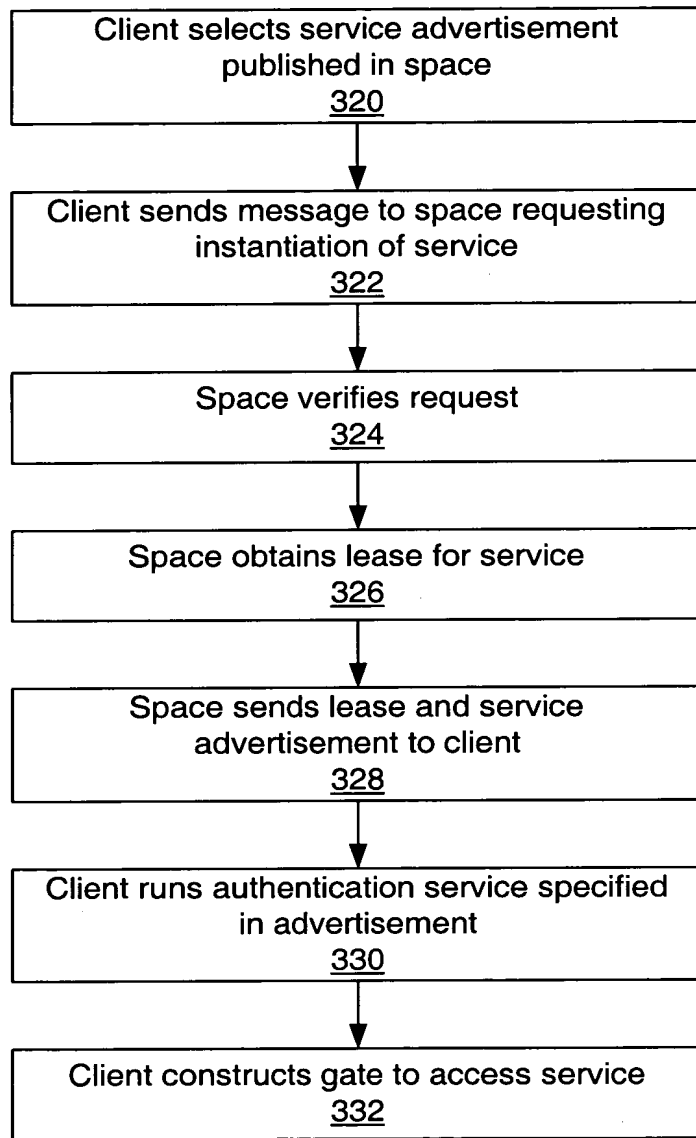


Fig. 22

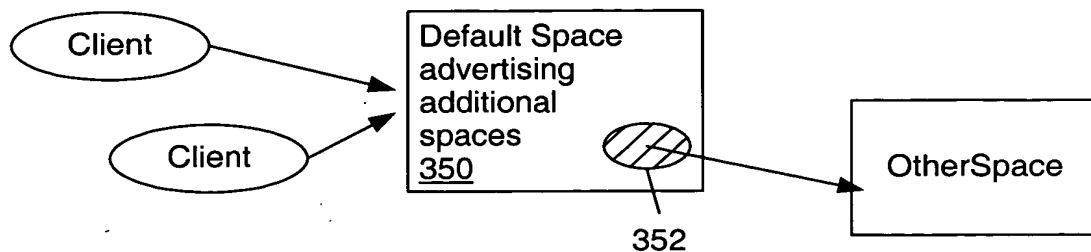


Fig. 23

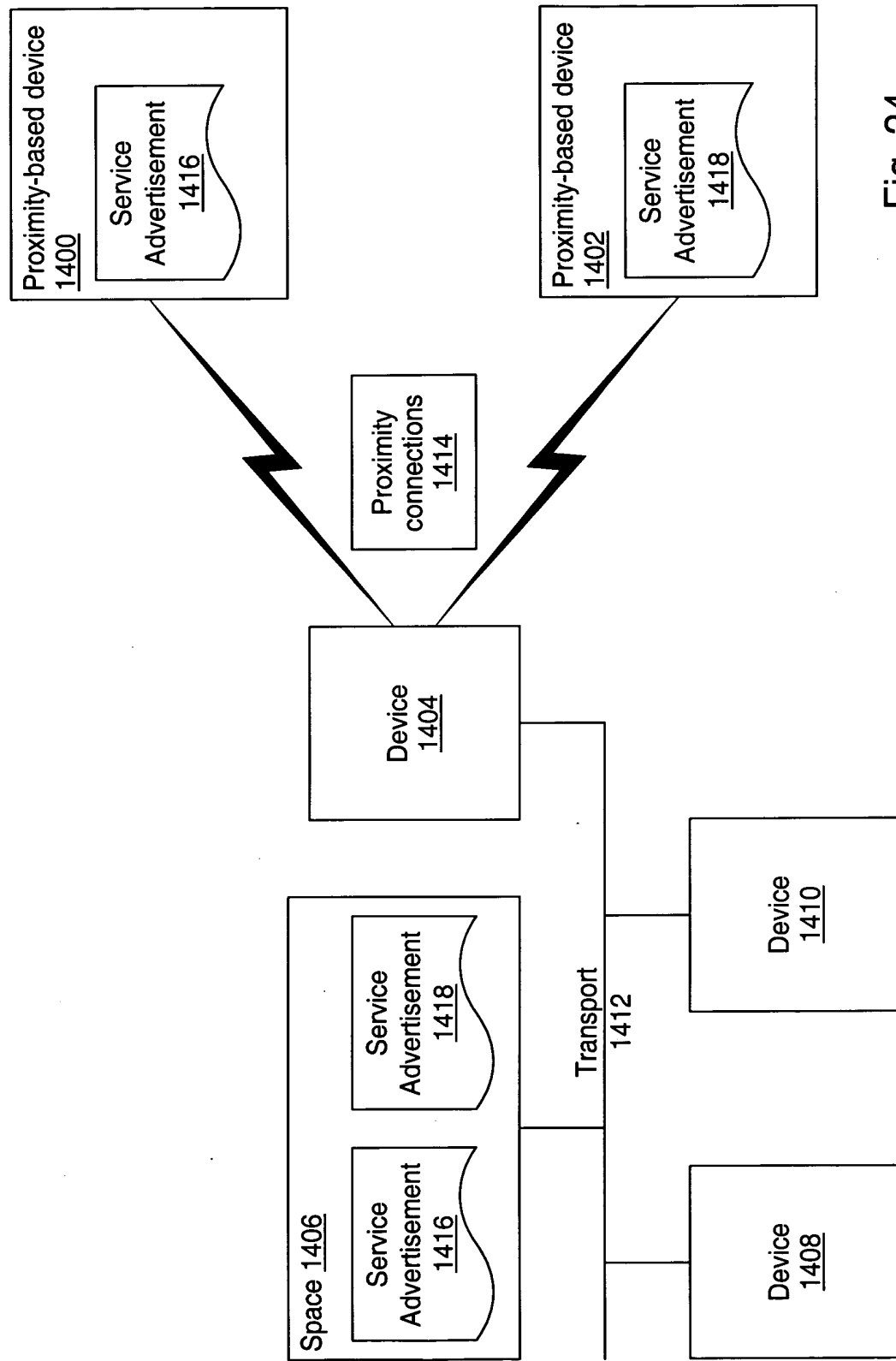


Fig. 24

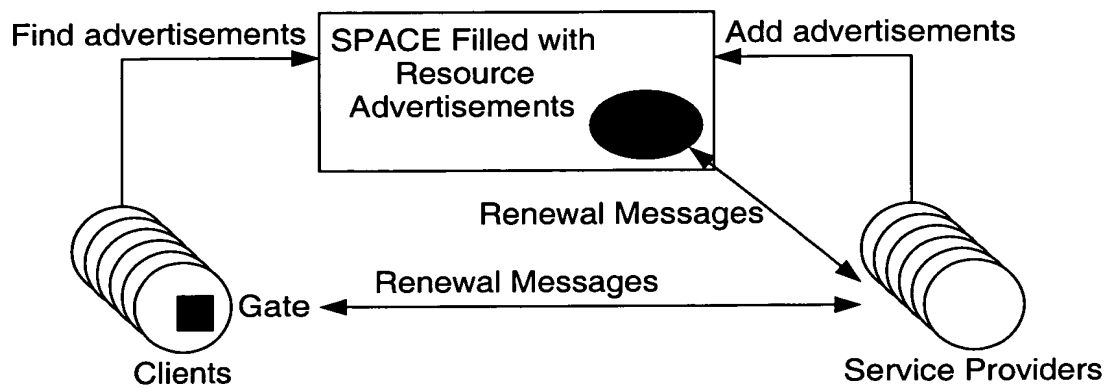


Fig. 25



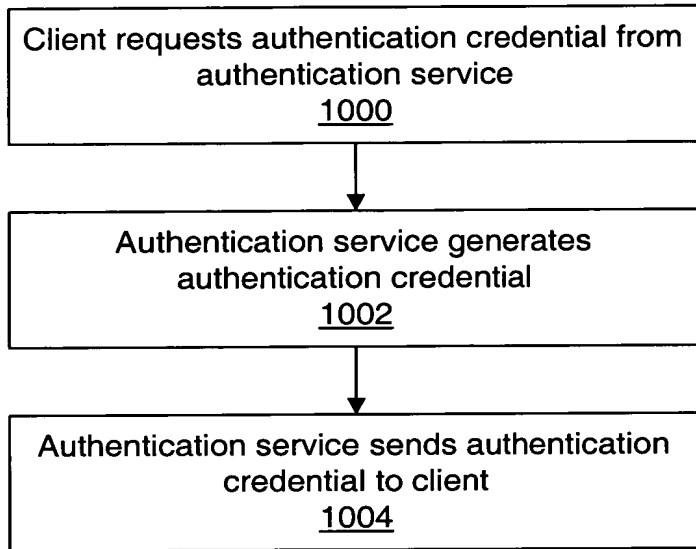
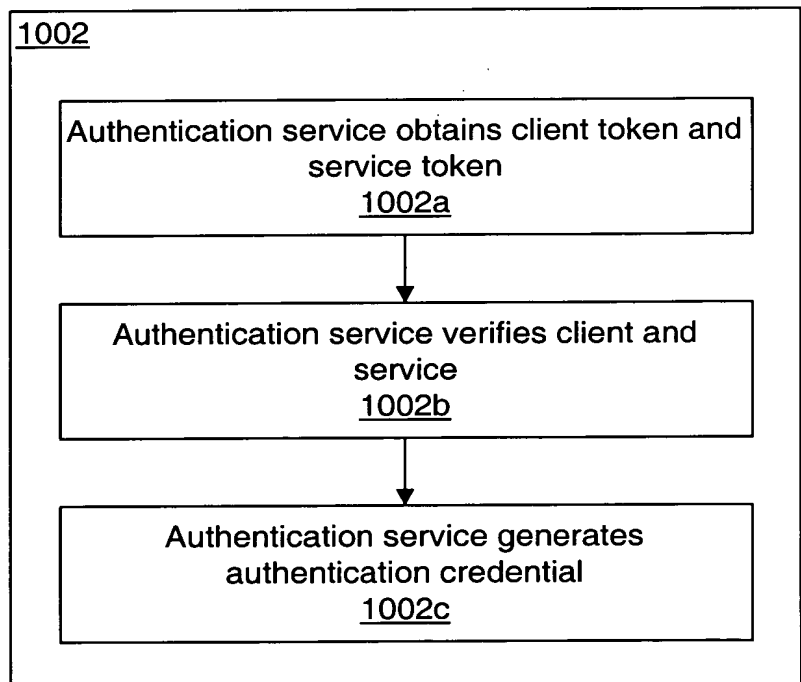


FIG. 26a

FIG. 26b



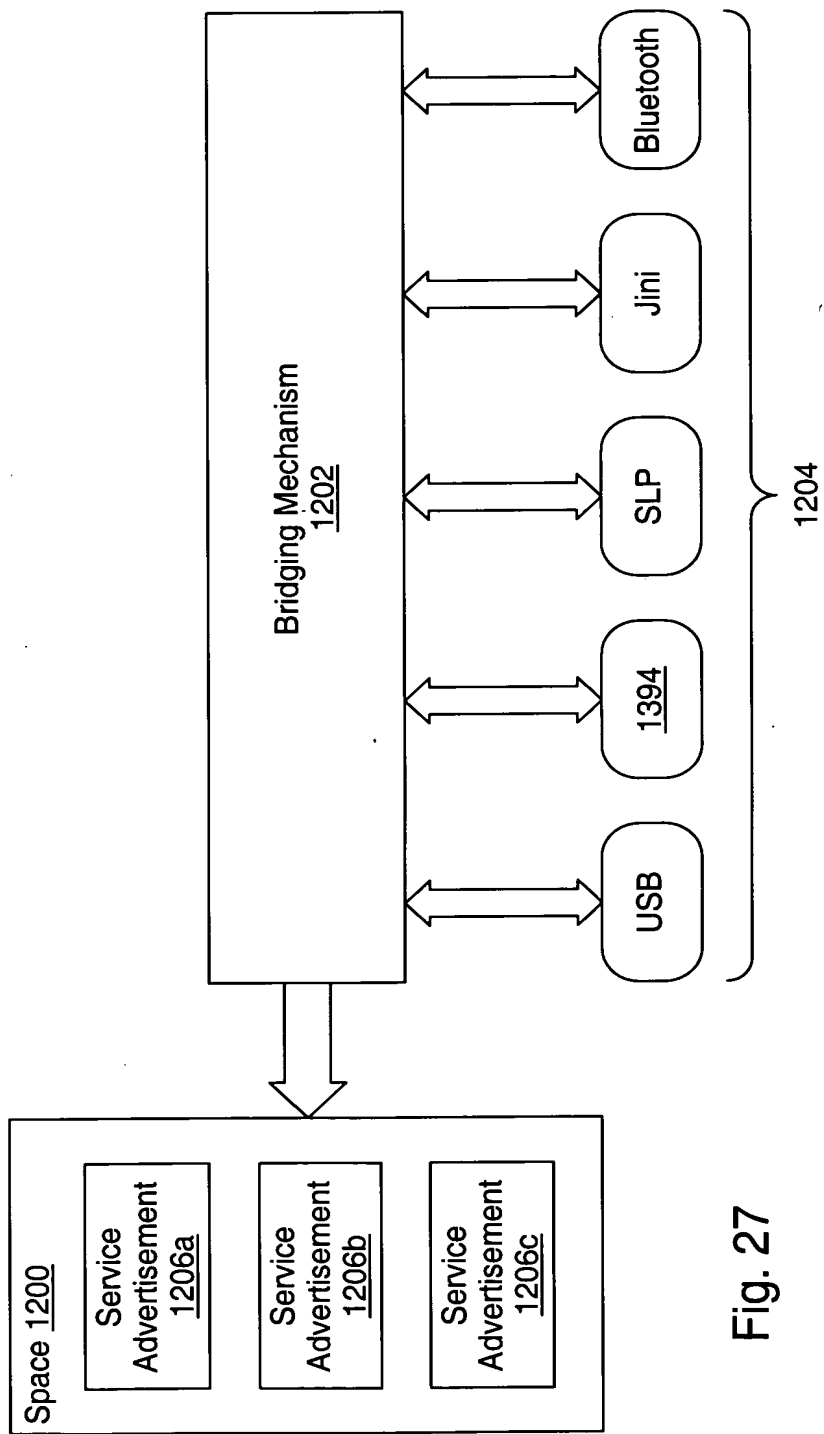
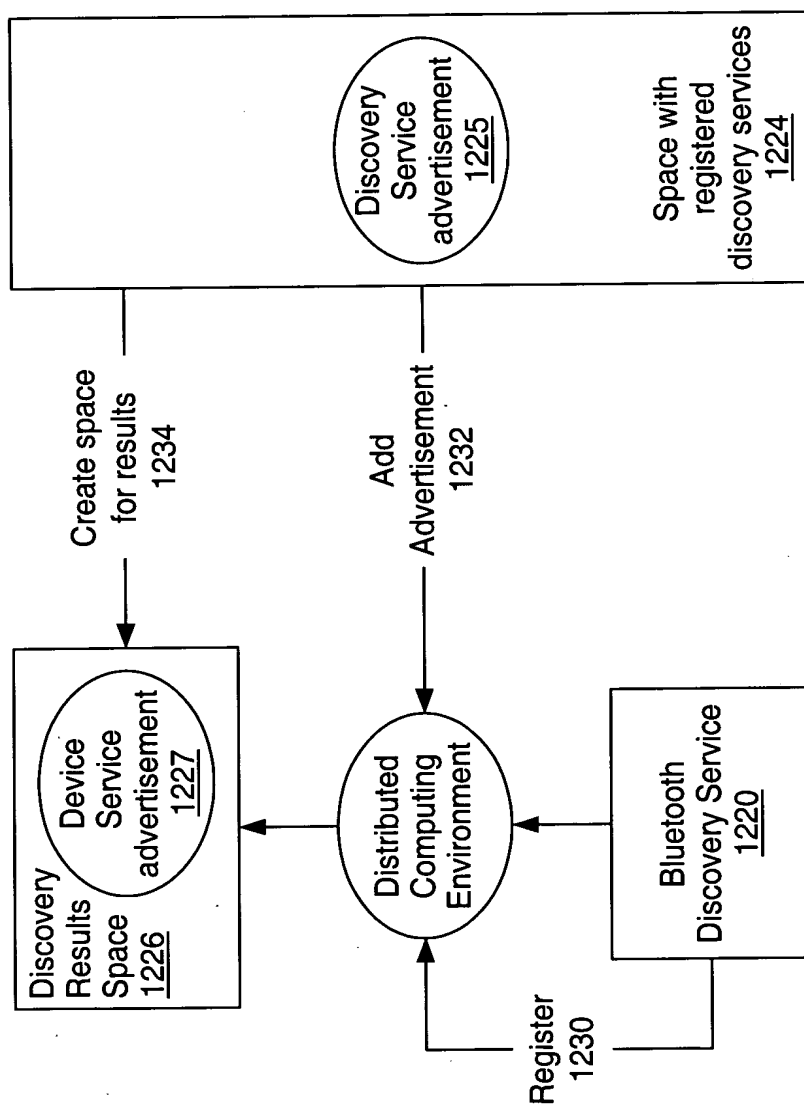


Fig. 27



**Fig. 28**

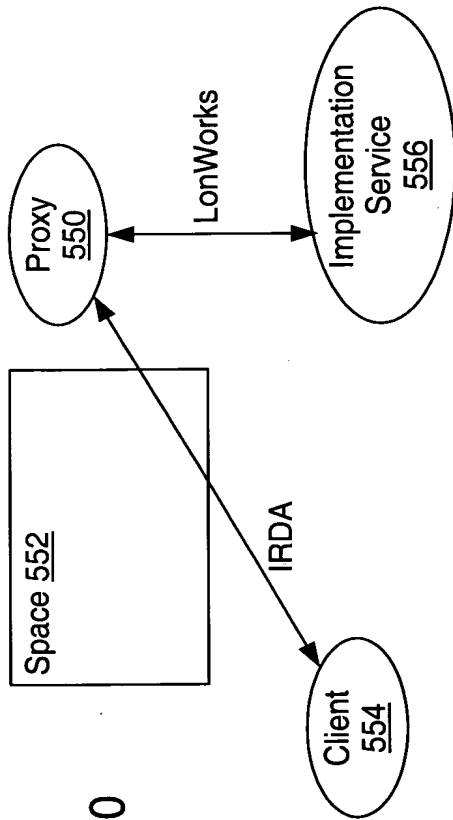


Fig. 30

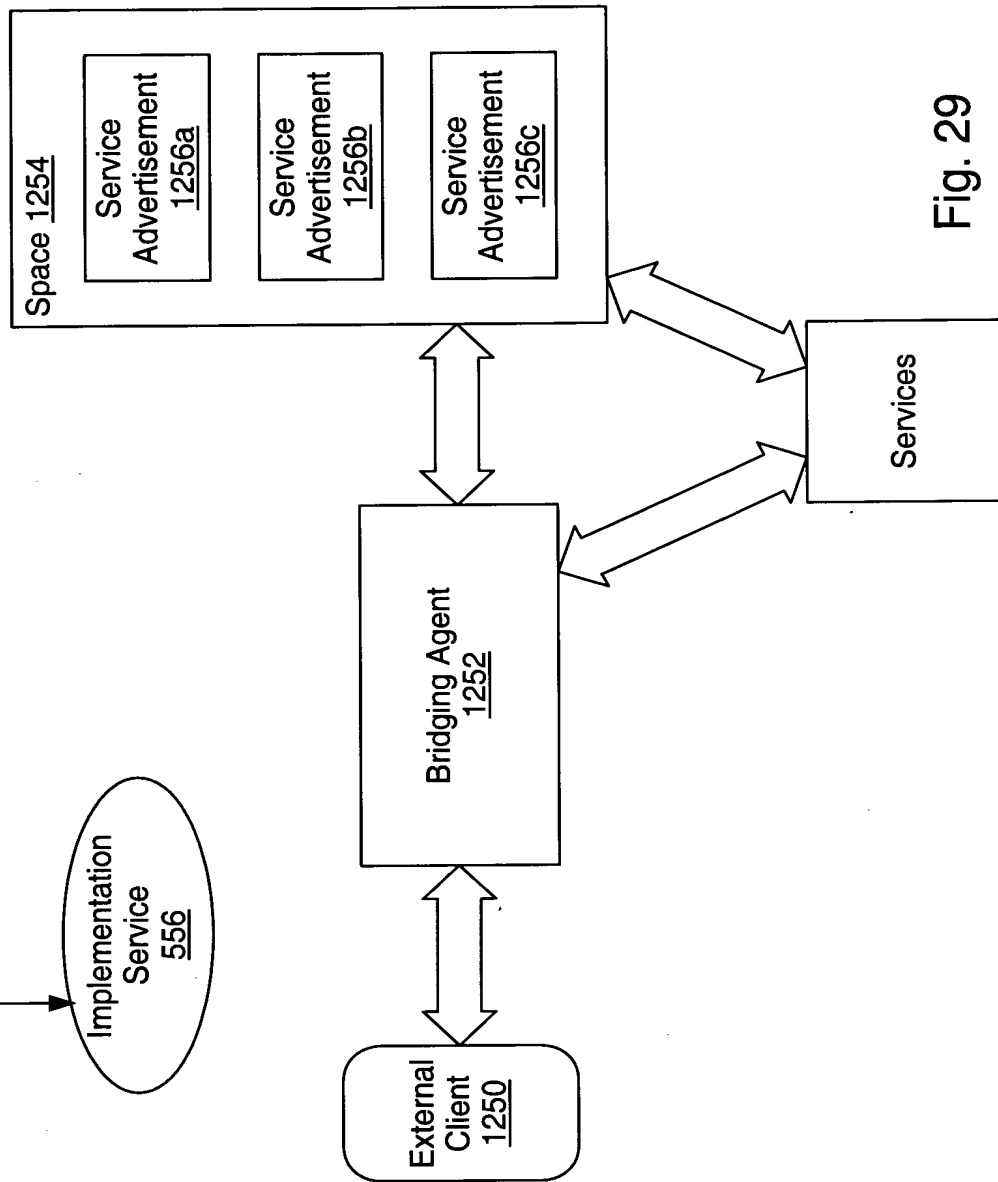


Fig. 29

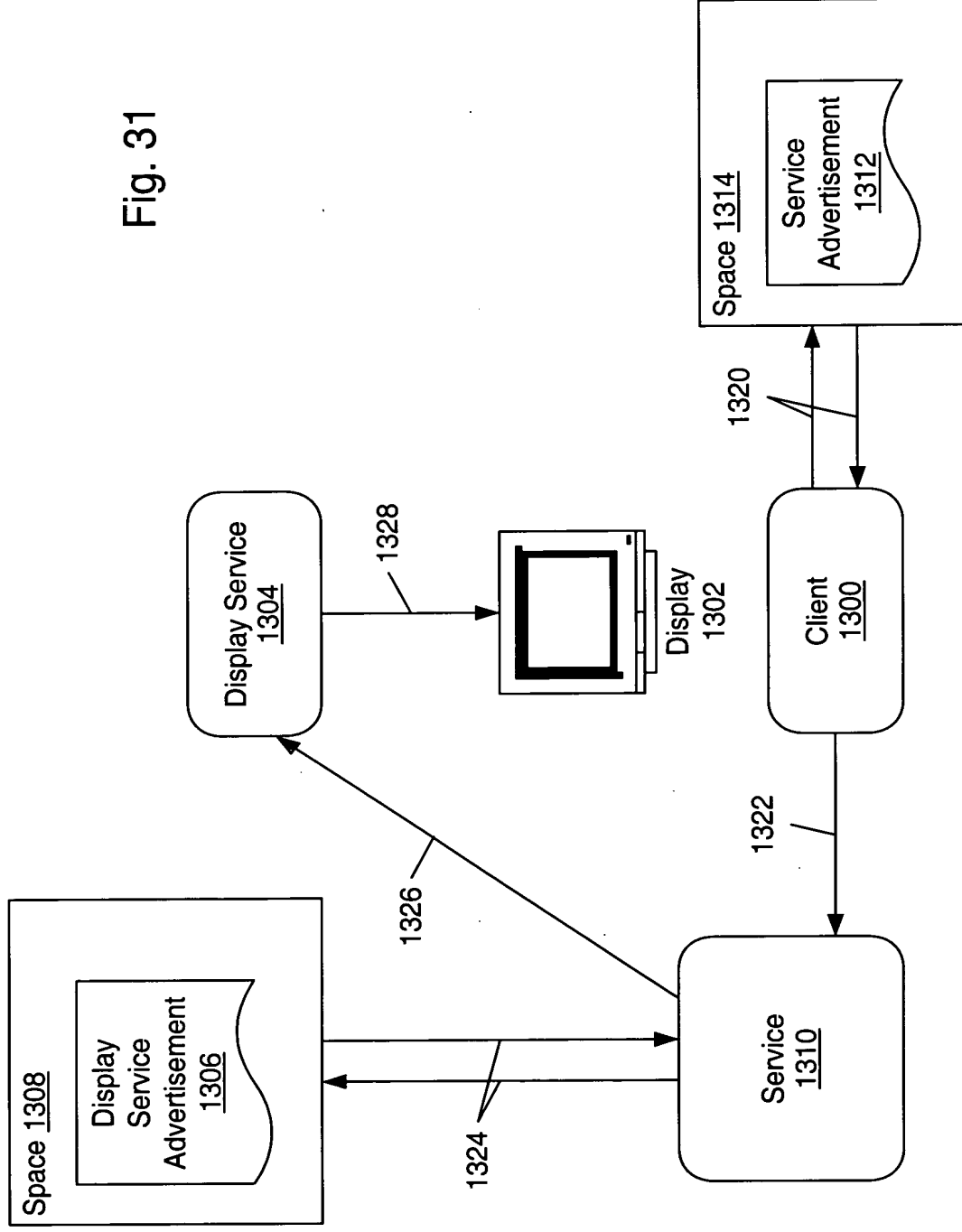


Fig. 31

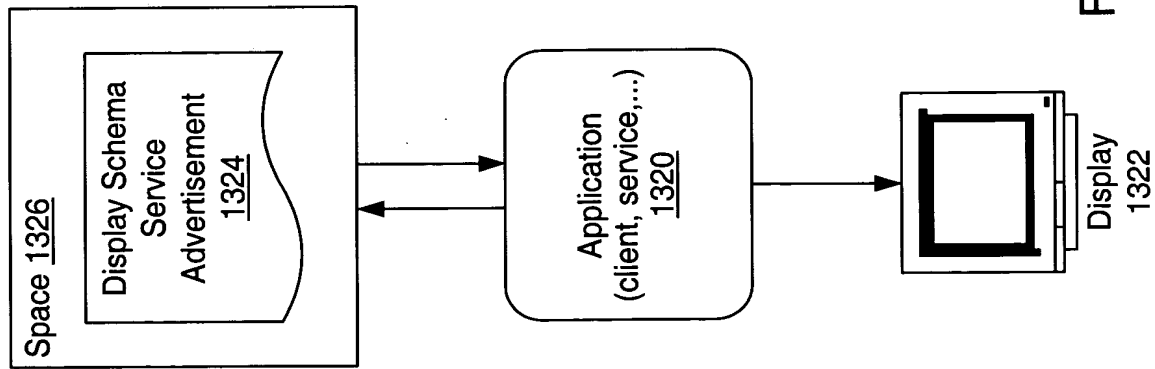


Fig. 32A

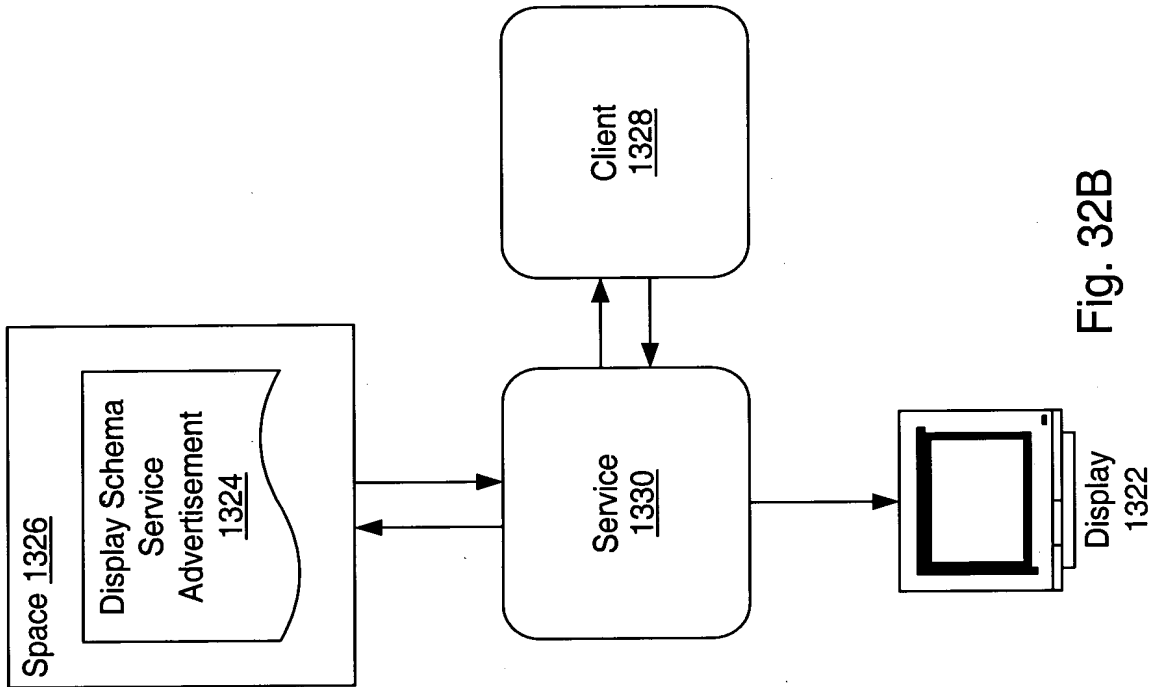


Fig. 32B

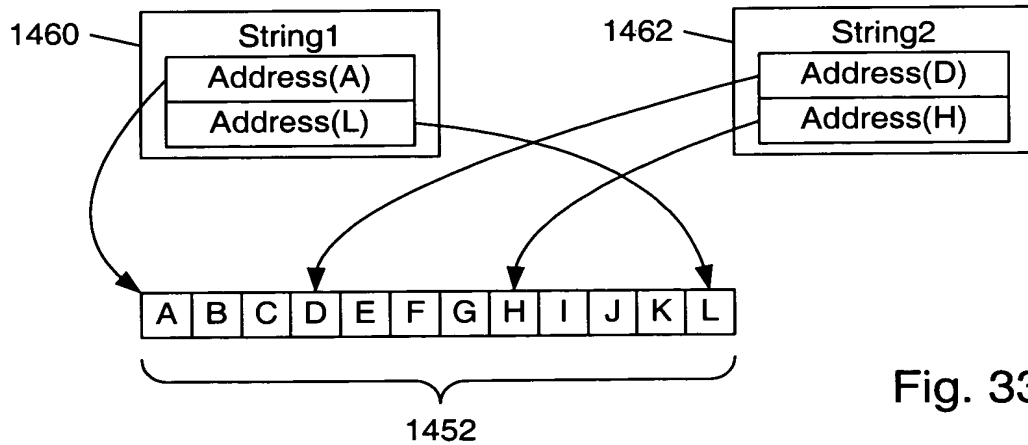
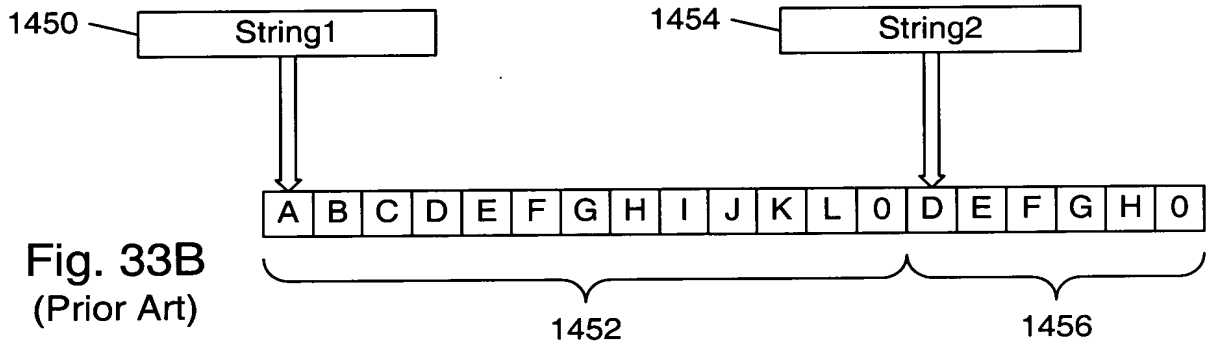
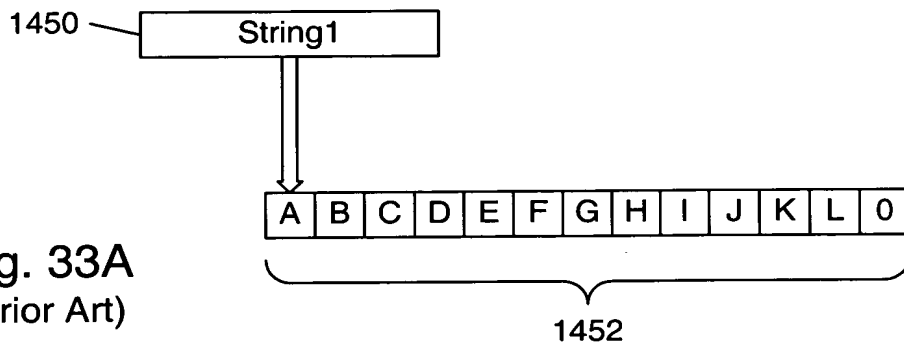


Fig. 33C

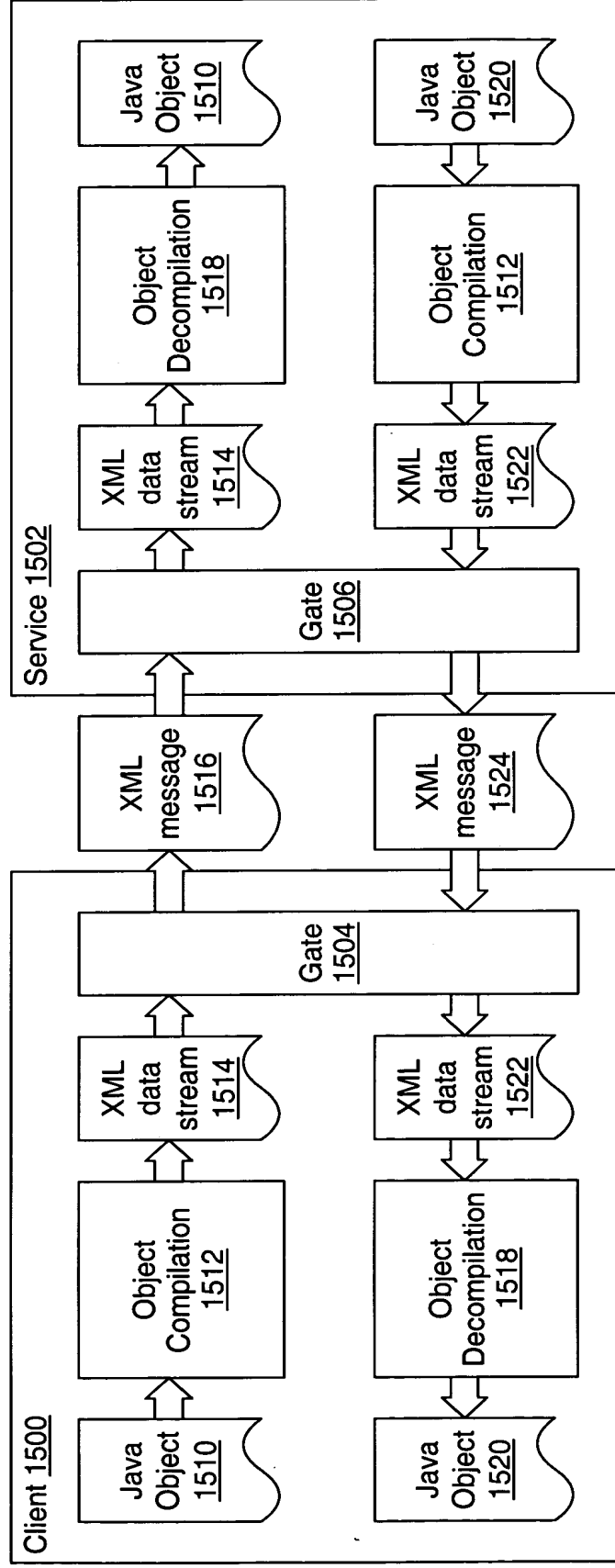


Fig. 34



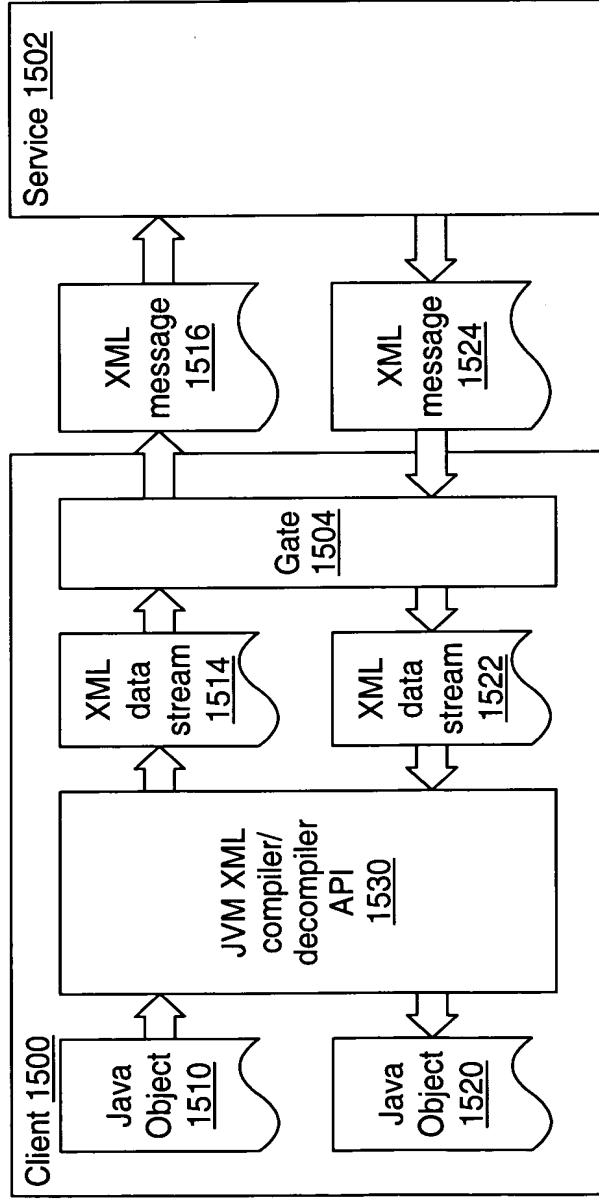


Fig. 35a

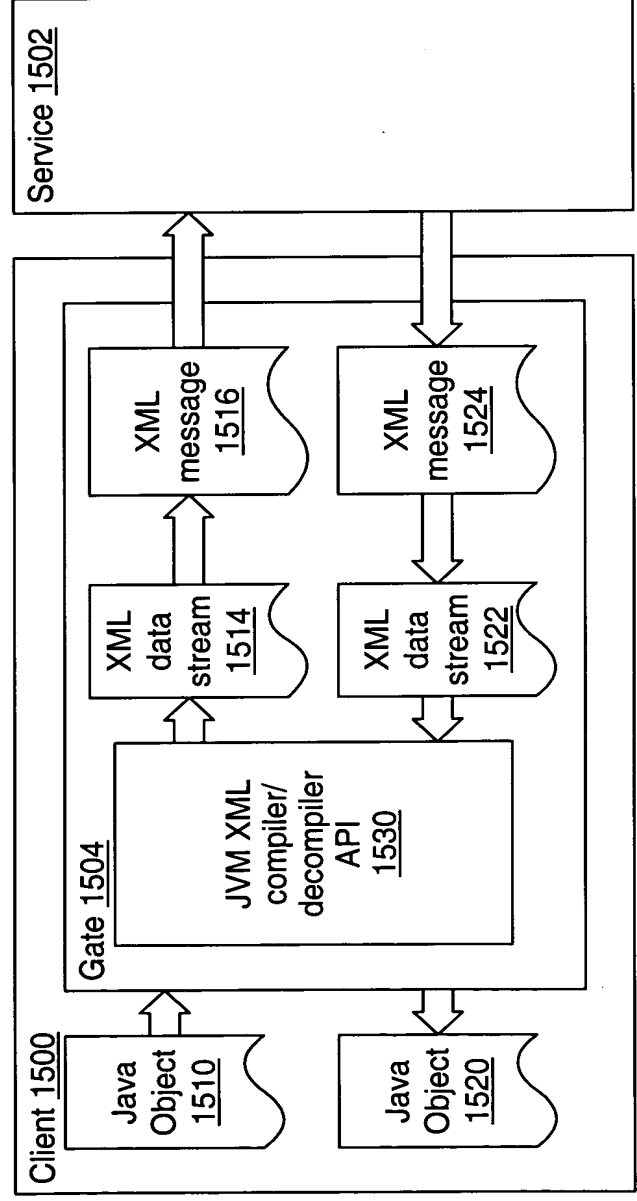


Fig. 35b

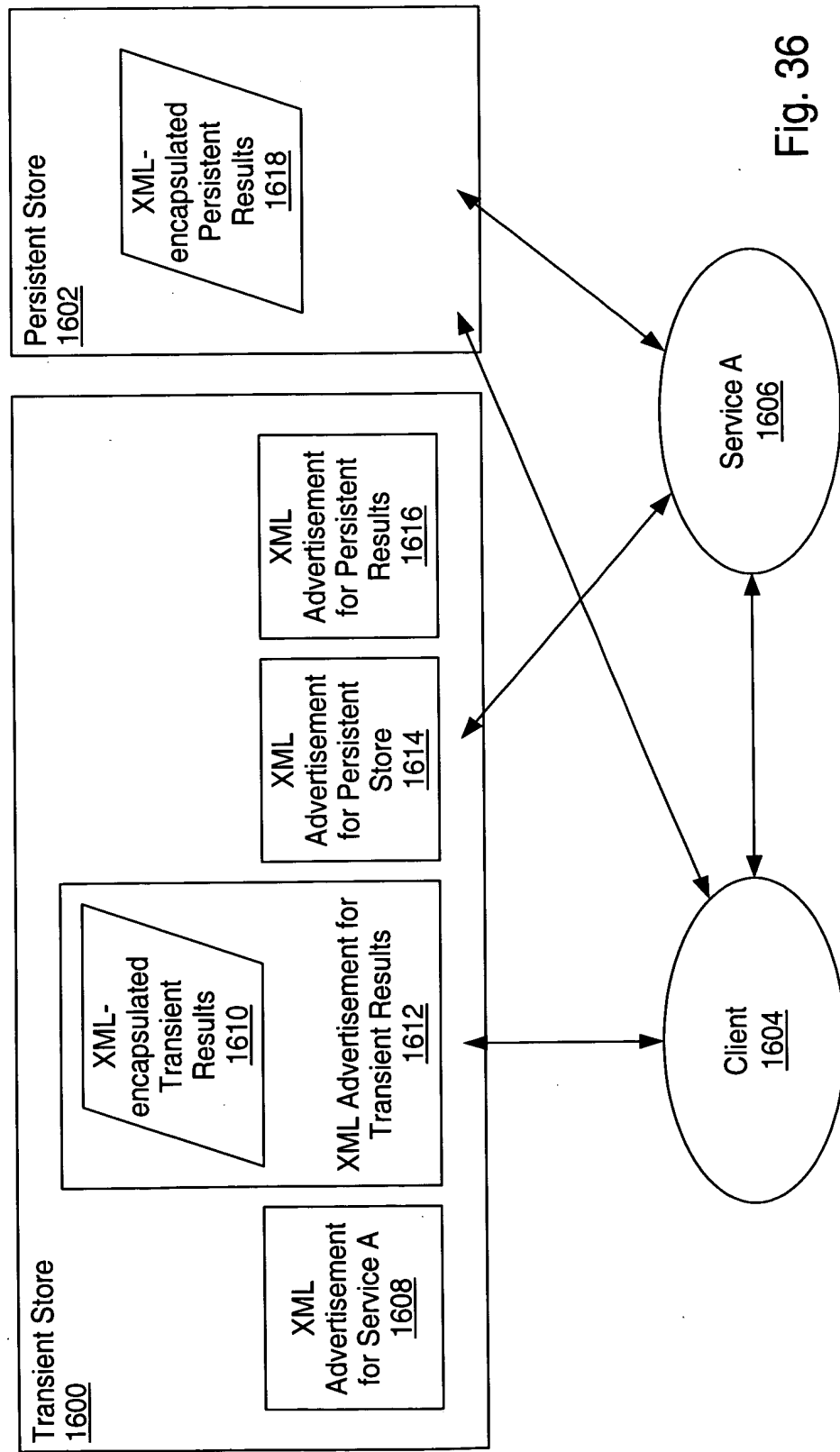


Fig. 36

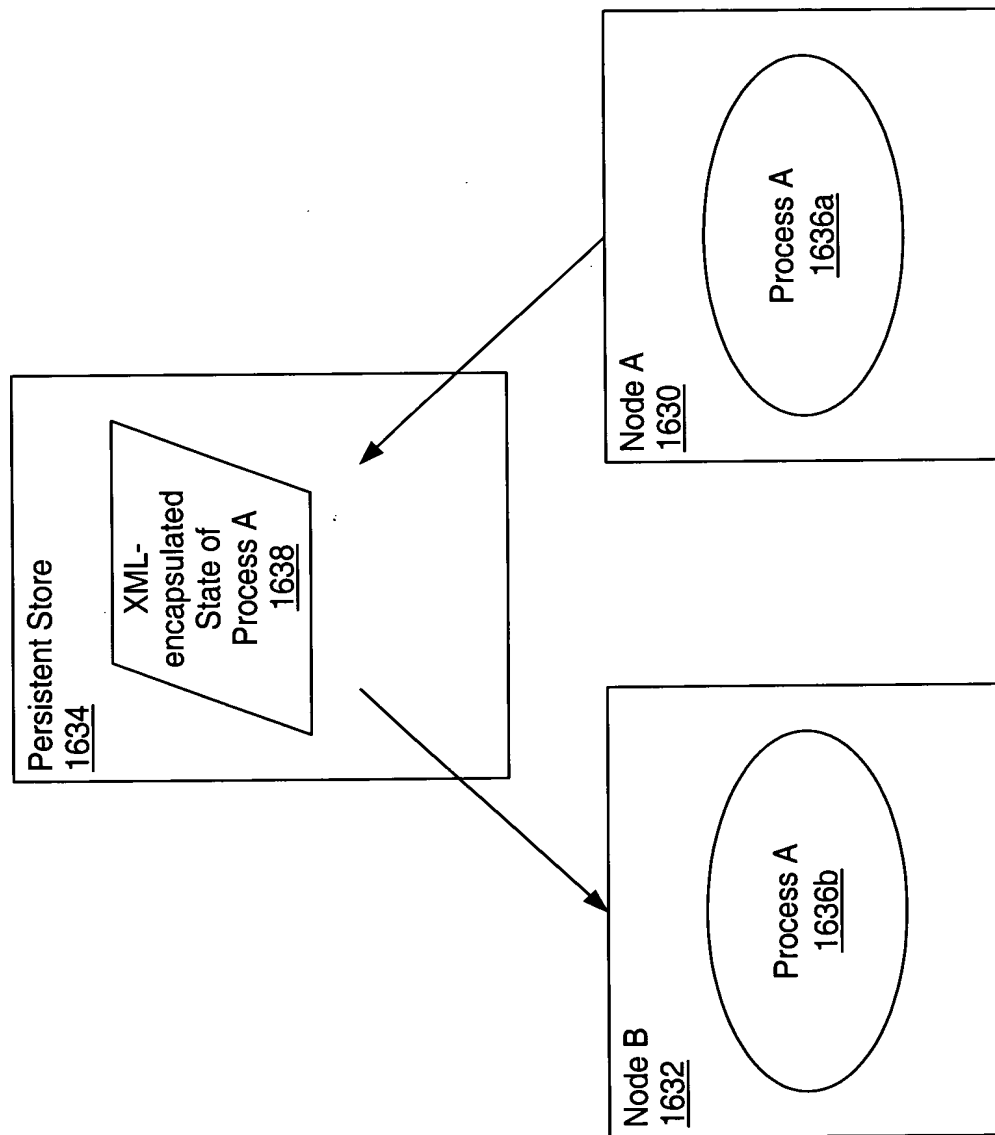


Fig. 37

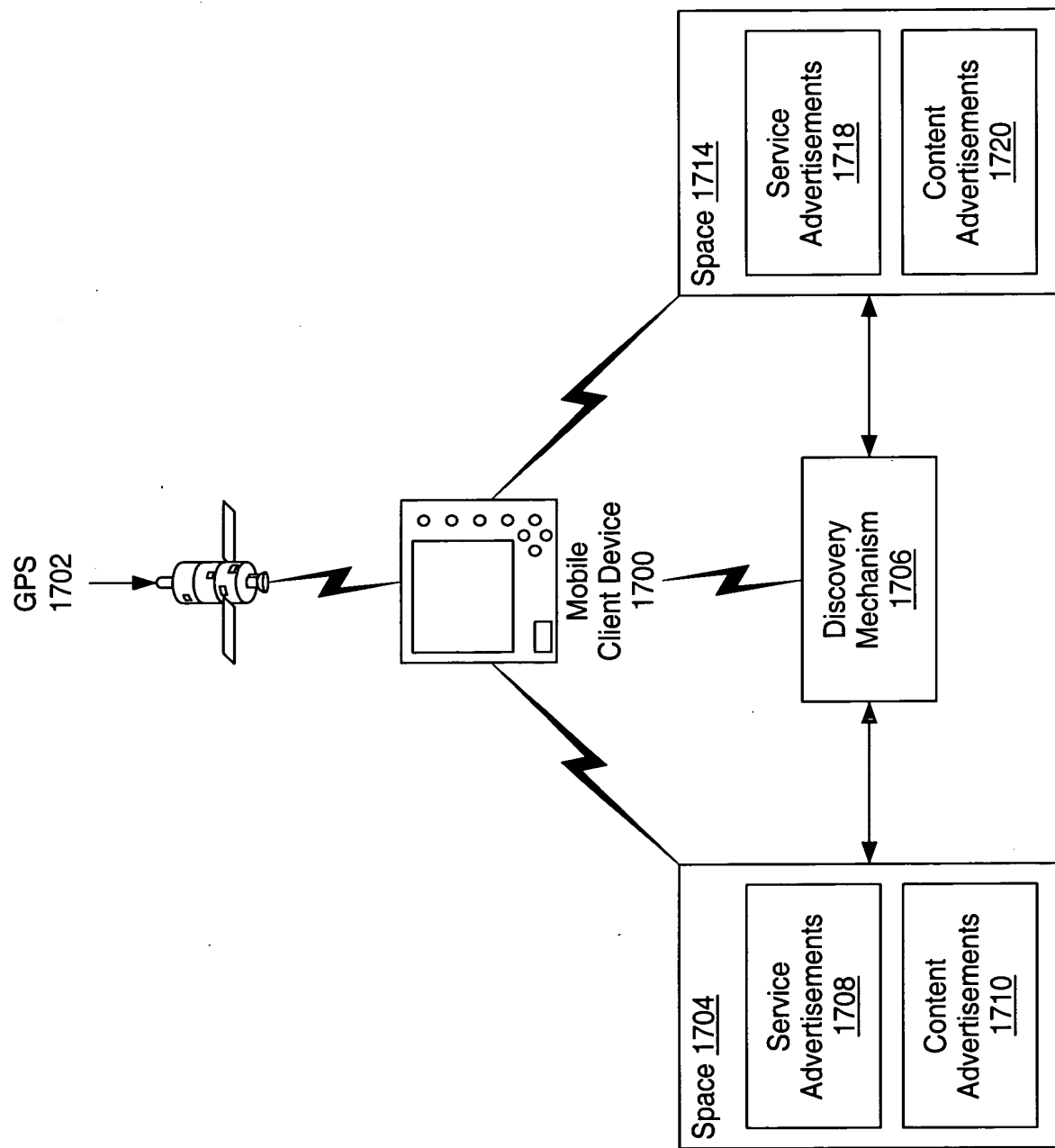


Fig. 38

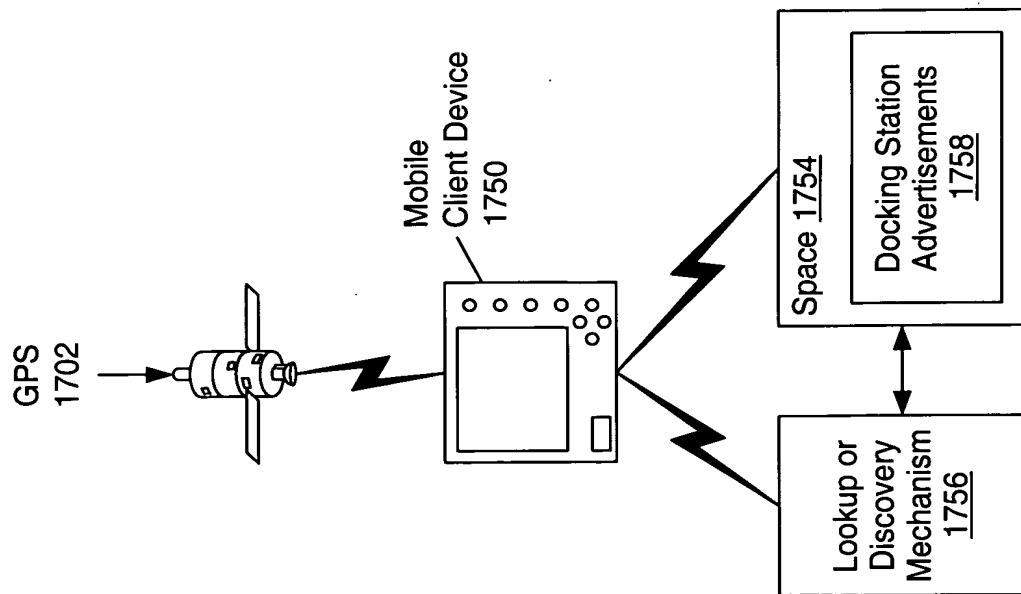


Fig. 39a

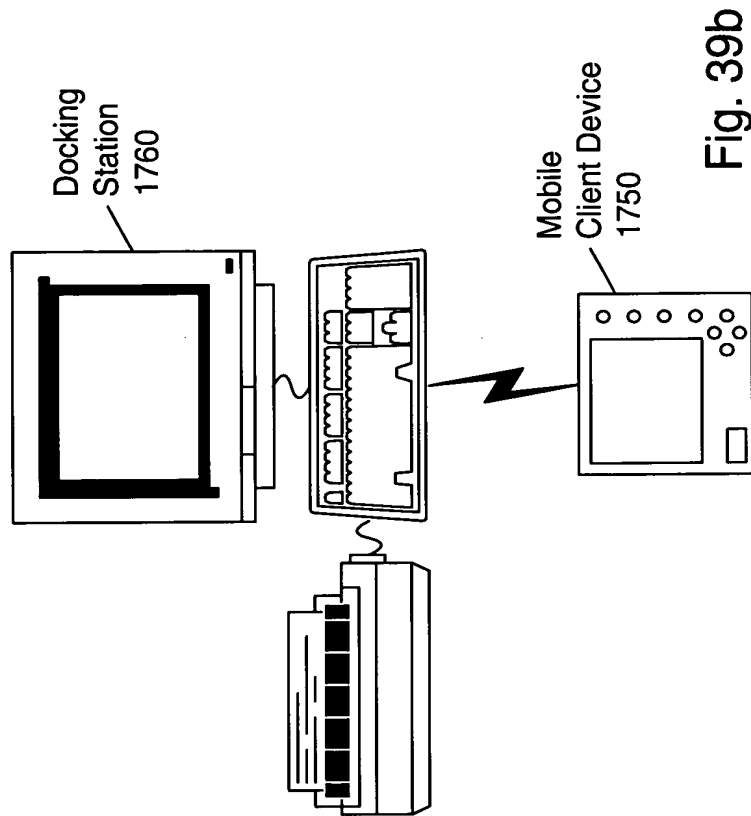


Fig. 39b

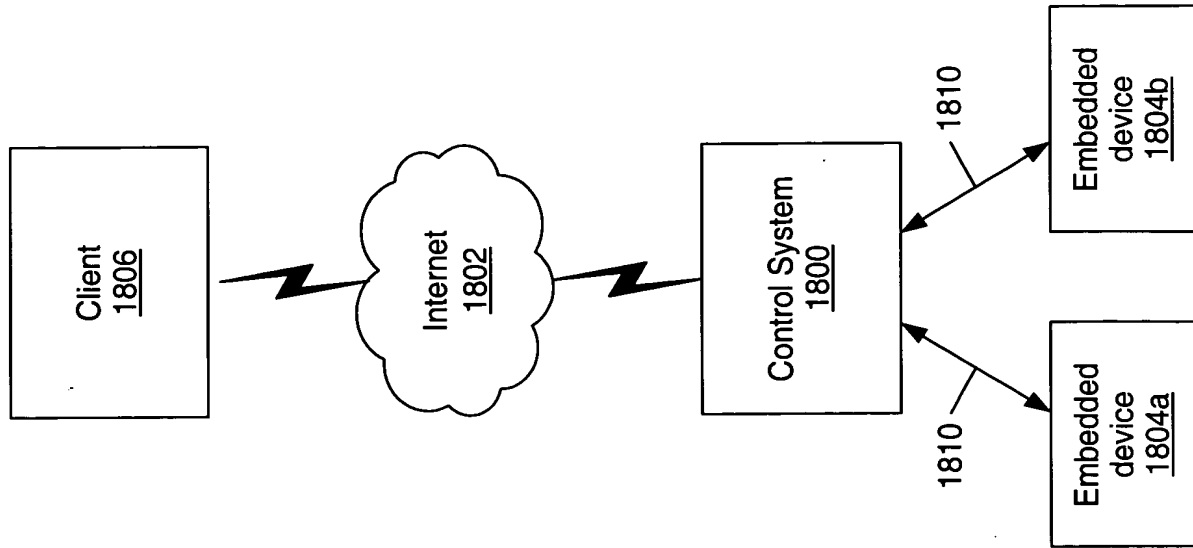


Fig. 40a

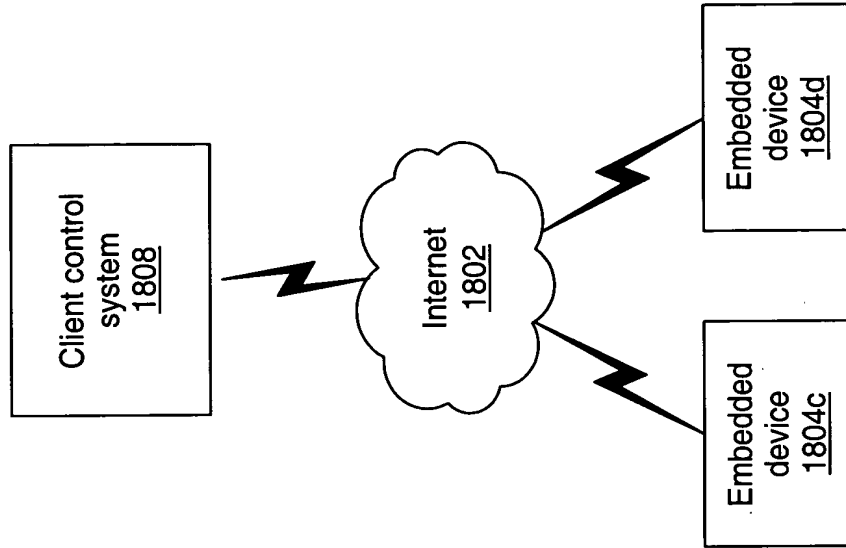


Fig. 40b

Gate factory obtains authentication  
credential and message schema  
1010



Gate factory generates client gate using  
authentication credential and message  
schema  
1012



Gate factory supplies client gate to client  
1014

FIG. 41

```

graph TD
    1020[Client sends first message to message gate  
1020] --> 1022[Message gate embeds authentication  
credential  
1022]
    1022 --> 1024[Message gate sends first message to service  
URI  
1024]

```

```

graph TD
    1030[Service receives first message  
1030] --> 1032[Service sends authentication credential to  
authentication service  
1032]
    1032 --> 1034[Authentication service verifies  
authentication credential  
1034]
    1034 --> 1036[Authentication service provides  
verification of client to service  
1036]
    1036 --> 1038[Service generates service gate to pair with  
client gate using authentication credential  
1038]

```



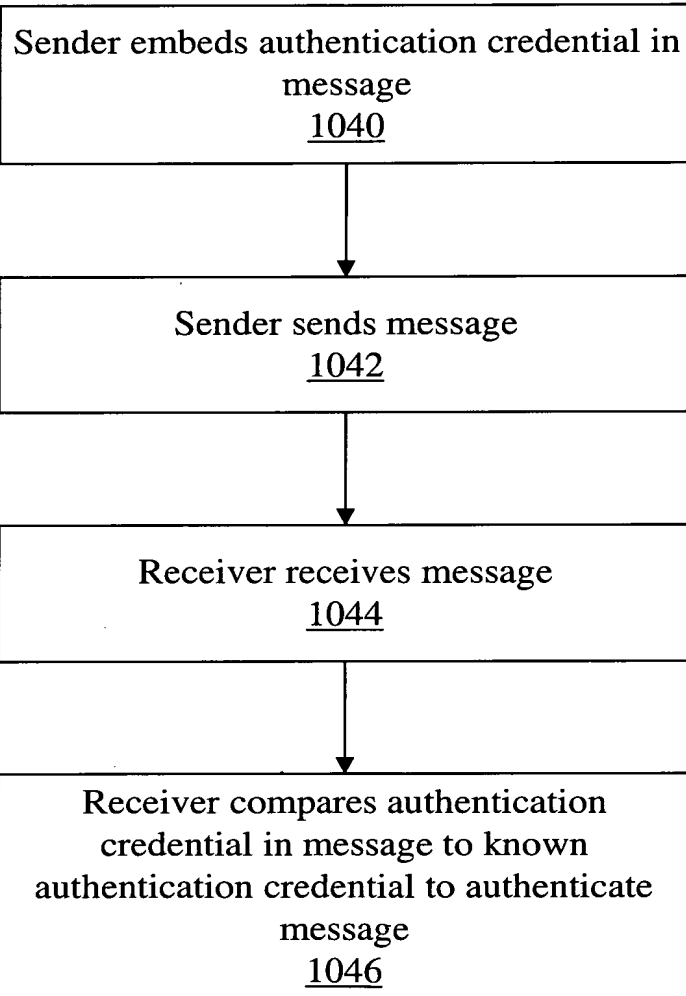


FIG. 42c

Sender embeds credential in message  
1050



Sender sends message  
1052



Receiver receives message  
1054



Receiver examines credential and message  
to verify message has not been  
compromised  
1056

FIG. 43

09672145.092700  
002260"54T2960

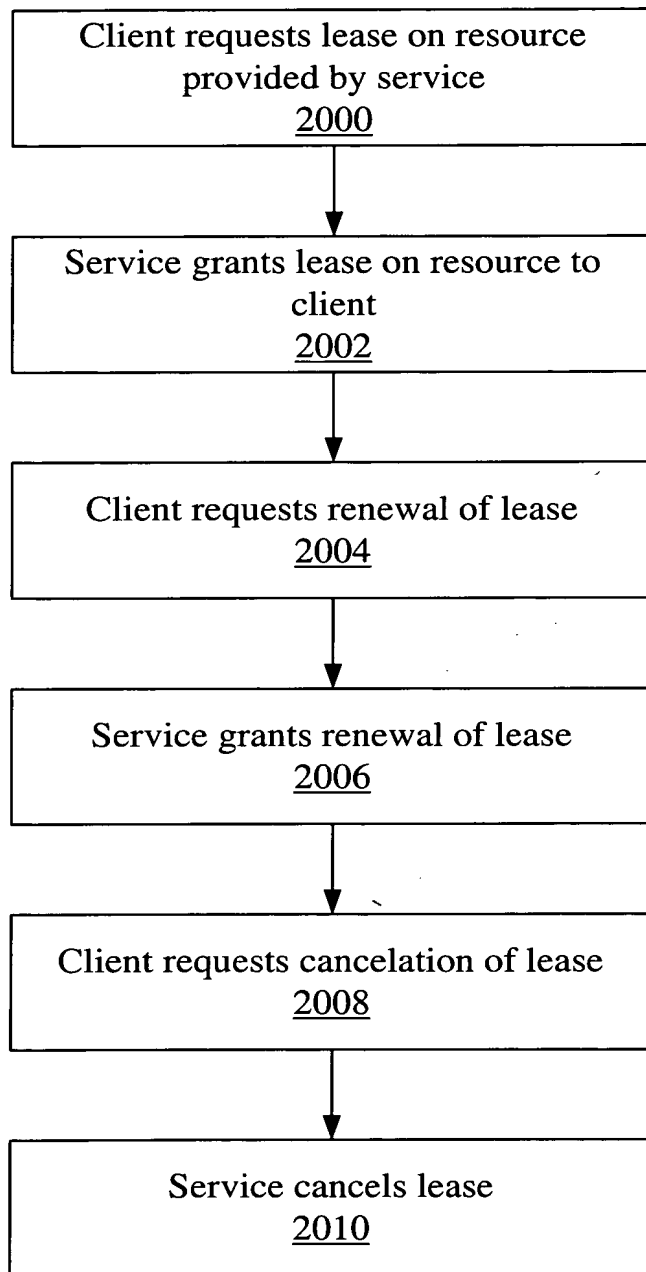


FIG. 44

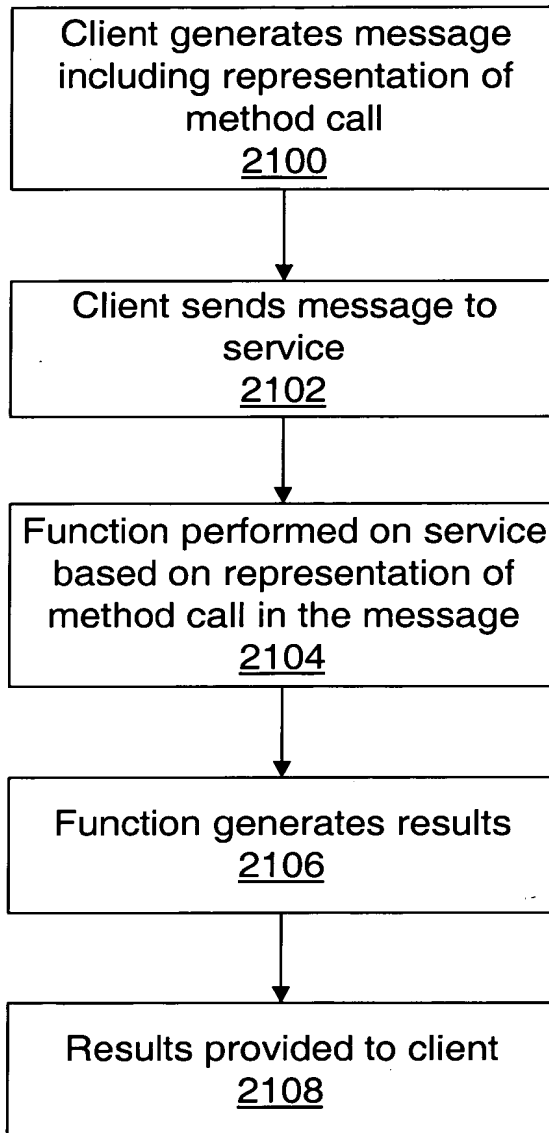


Figure 45a

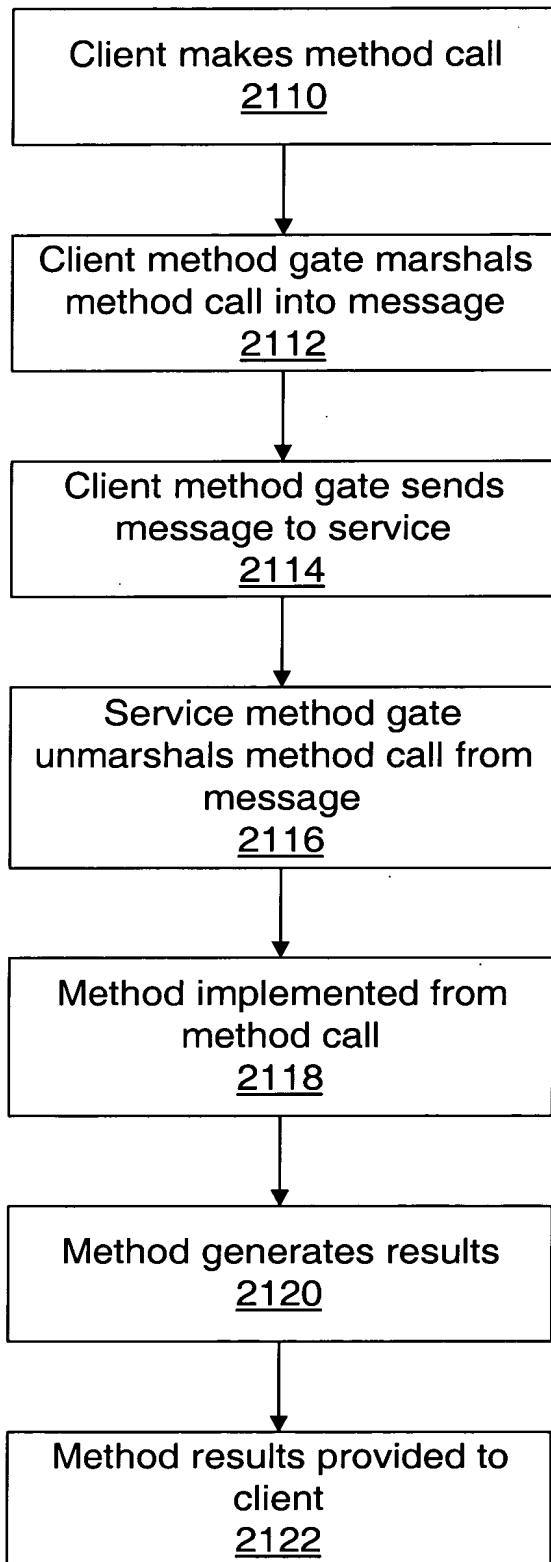


Figure 45b

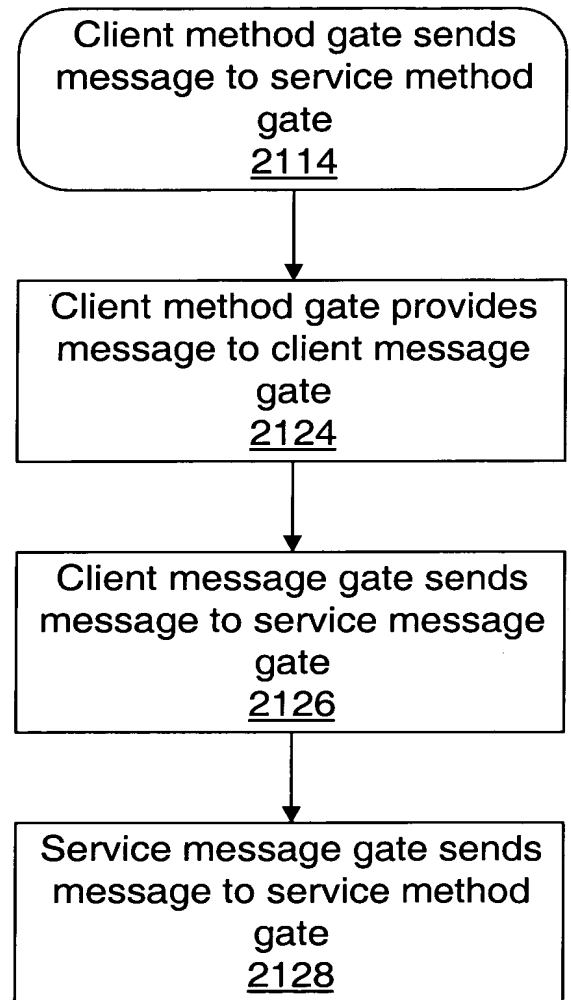


Figure 45c

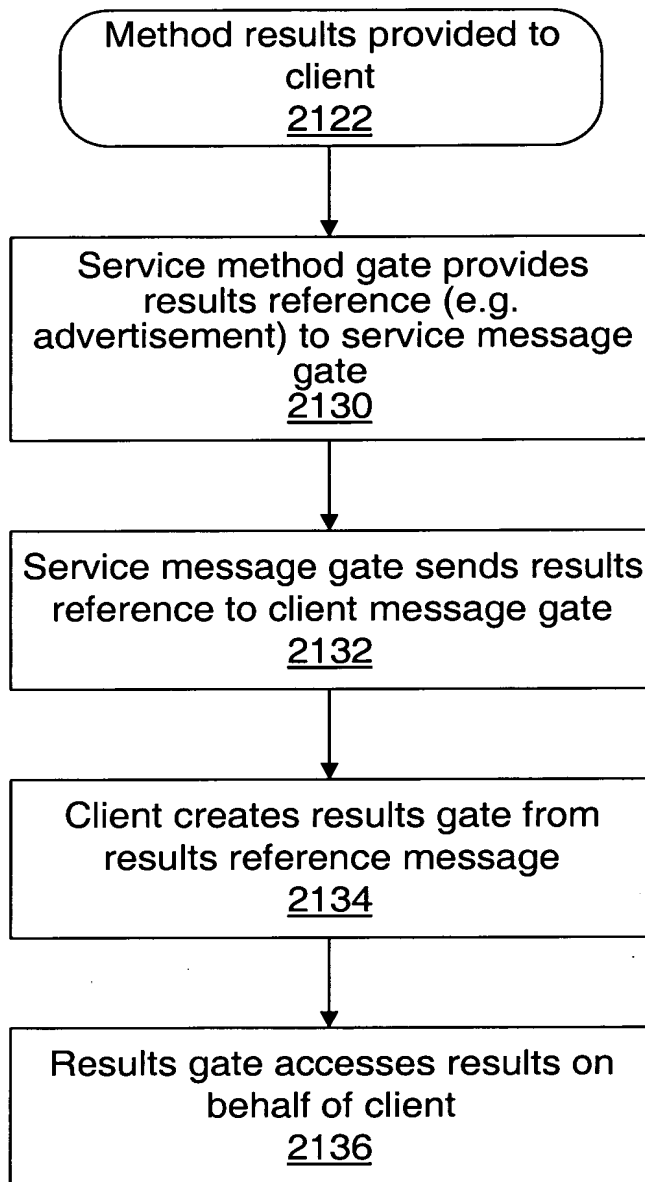


Figure 45d

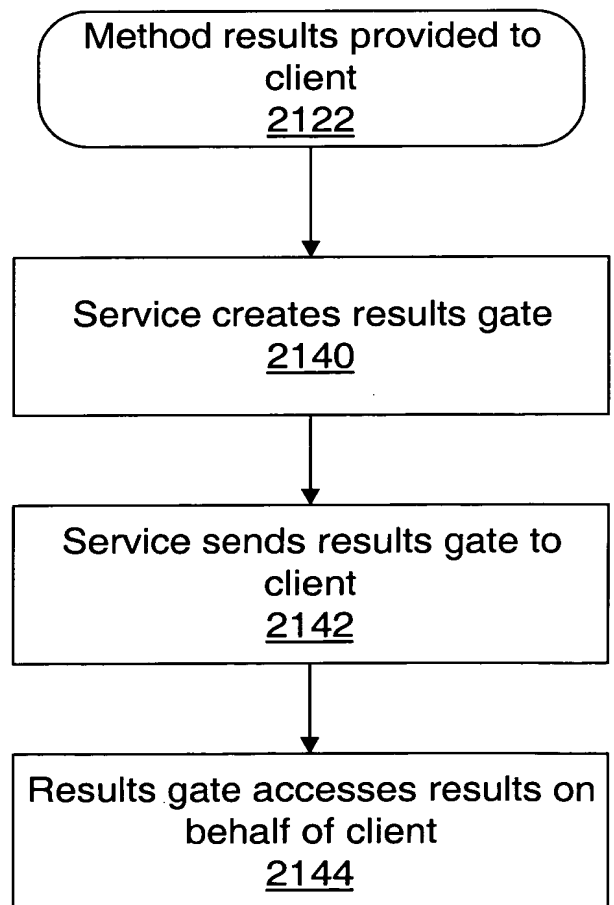


Figure 45e

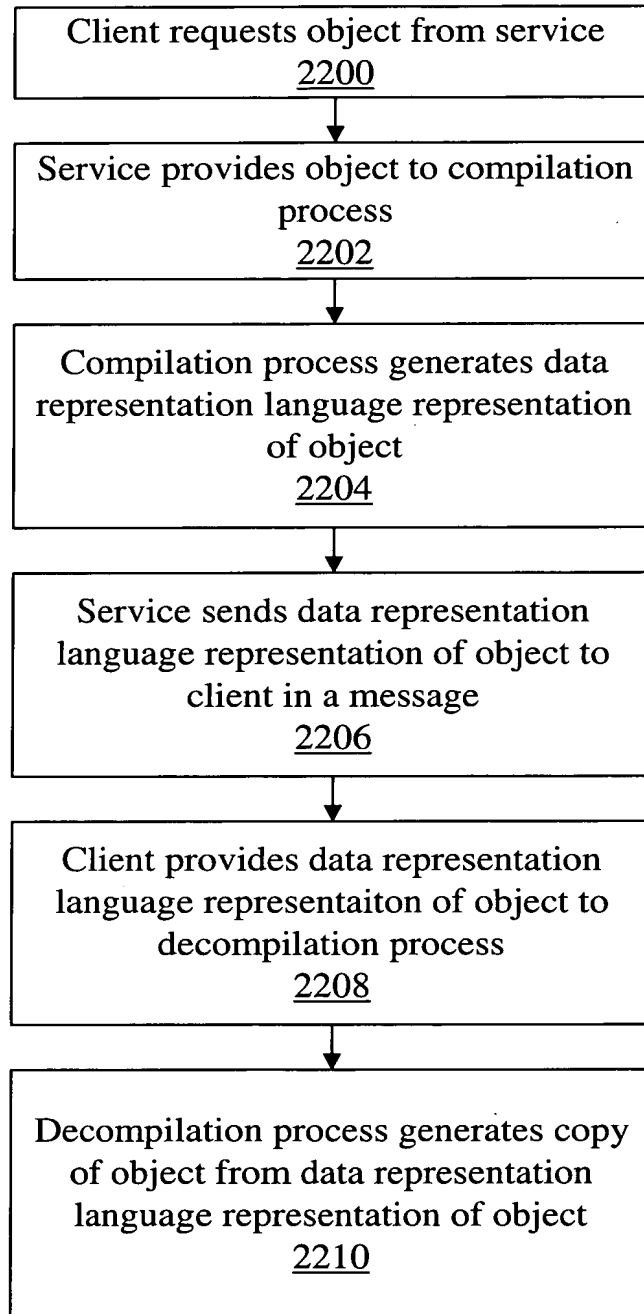


Figure 46

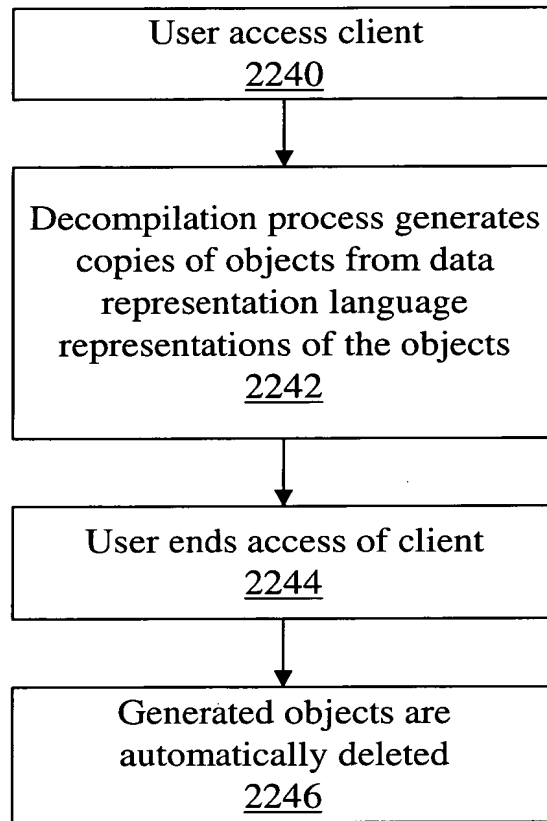


Figure 47



002260"5422960

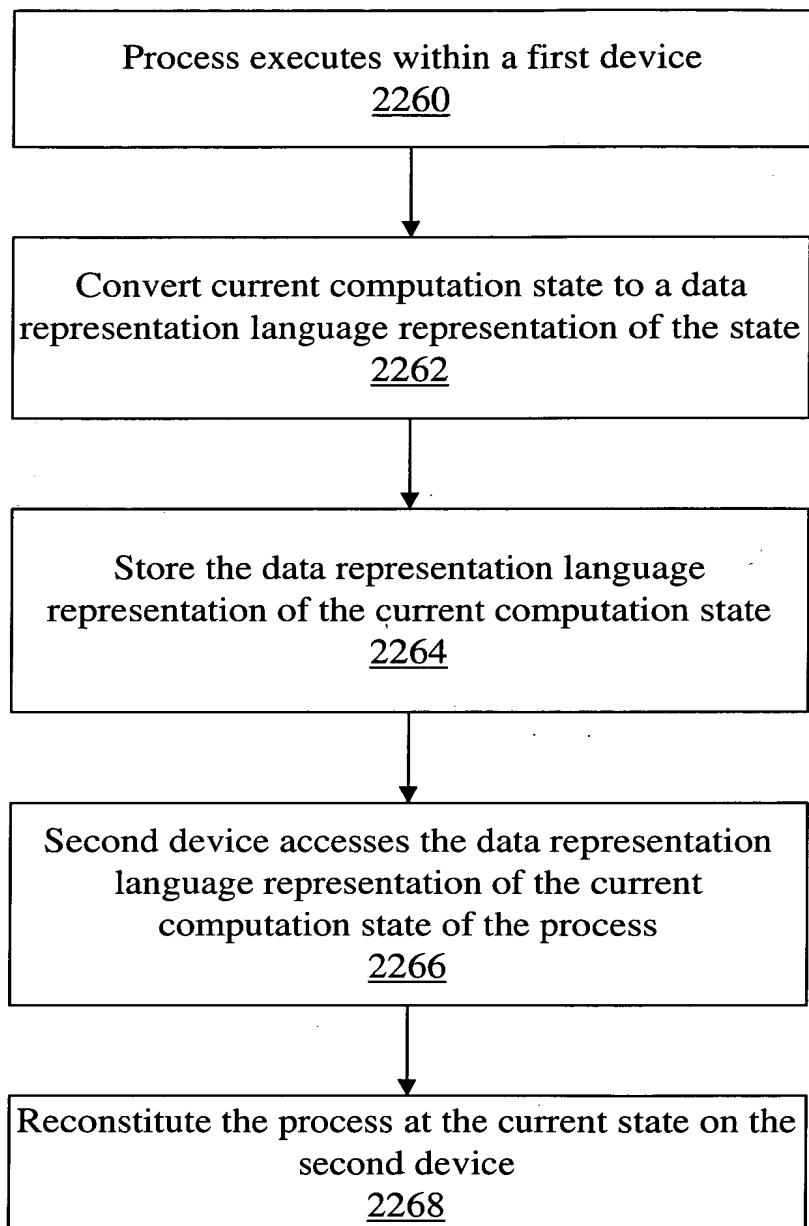


Figure 48